SAMSUNG

# COLOR TELEVISION RECEIVER

Chassis : SCT57B
Model: CK569BGT1X/BWT
CK569BGT1X/VWT

# SERVICE Manual

## COLOR TELEVISION RECEIVER

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# 1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

## 1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.

2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children--might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

   If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1):
   Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances),* and Underwriters Laboratories *(UL Publication UL1410, 59.7).*

5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

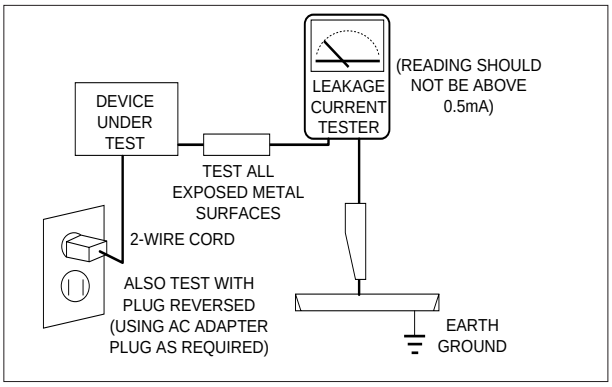

LEAKAGE CURRENT TESTER
(READING SHOULD NOT BE ABOVE 0.5mA)
DEVICE UNDER TEST
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Fig. 1-1 AC Leakage Test

6. Antenna Cold Check:
   With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.

7. X-ray Limits:
   The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.

8. High Voltage Limits:
   High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced. (X-ray protection circuits also may be called "horizontal disable" or "hold-down".)

   Heed the high voltage limits. These include the *X–ray Protection Specifications Label,* and the *Product Safety and X-ray Warning Note* on the service data schematic.

## 1-1 Safety Precautions (Continued)

9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.

10. Design Alteration Warning:
    Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

11. Hot Chassis Warning:
    Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

    To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.

12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, *regardless of the AC plug polarity*. These units can be safely serviced *only* if an isolation transformer inserted between the receiver and the power source.

13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.

14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.

15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

16. Picture Tube Implosion Warning:
    The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.

17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.

18. Product Safety Notice:
    Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

    Components that are critical for safety are indicated in the circuit diagram by shading, ( ) or (⚠).
    Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

## 1-2 Servicing Precautions

**WARNING1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.**

**WARNING2: An electrolytic capacitor installed with the wrong polarity might explode.**

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

## 1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static"; these can accumulate sufficient electrical charge to damage ESDs.
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

# 2. Specifications and IC Data

## 2-1 Specifications

Television System:

| MODEL | SYSTEM |
|---|---|
| CI | PAL-I (UHF) |
| CII | PAL-I (VHF/UHF) |
| CX | PAL-B/G, SECAM-B/G |
| CK | PAL-B/G, D/K, SECAM-B/G, D/K |
| CW | PAL-B/G, D/K, SECAM-B/G, D/K, NT 4.43 |
| CS | PAL-B/G, D/K, SECAM-B/G, D/K, NT4.43, NT3.58 |

Channels:

| System / Band | PAL/SECAM-B/G,I | PAL, SECAM- D/K | SECAM-K1, PAL-D | NTSC - M |
|---|---|---|---|---|
| VHF | 2 - 12 | 1 - 13 | 2 - 9 | 2 - 13 |
| UHF | 21 - 69 | 21 - 69 | 13 - 57 | 14-69 |

Intermediate Frequencies (MHz) :

| SYSTEM / IF Carrier Frequency | PAL/ SECAM- B/G | PAL/SECAM-D/K, SECAM-K1 | PAL - I | NTSC - M |
|---|---|---|---|---|
| Picture IF Carrier | 38.90 | 38.90 | 38.90 | 38.90 |
| Sound IF Carrier | 33.40 | 32.40 | 32.90 | 34.40 |
| Color Sub Carrier | 34.47 | 34.47 | 34.47 | 35.32 |

Picture Tube:

| | | |
|---|---|---|
| 14 Inch | A34KQV42X | Quick start, in-line-gun, |
| 20 Inch | A48KRD82X | Black stripe, 90° degree deflection |
| 22 Inch | A53QCA891X | |

Power Requirements: AC 100 ~ 260V, 50/60Hz or AC 160 ~ 260V, 50/60Hz

Antenna Input Impedance: VHF, UHF : Telescopic dipole antenna (75 ohm unbalanced type )

Speaker Impedance 10W + 10W/8 ohm, 3W/16 ohm, 5W + 5W/16 ohm

## 2-2 IC Line Up

Table 2-1 IC Line Up

| Loc No. | No. | Specification | Description | Remarks |
|---|---|---|---|---|
| HIC101 | 1 | PAP102T | IF PRE-AMP | |
| IC202 | 2 | TDA8844 | PAL-B/G, SECAM-B/G,NTSC, SECAM-L | |
| | | TDA8843 | PAL-B/G, SECAM-B/G, SECAM-L | |
| | | TDA8375A | PAL-B/G, SECAM-B/G, NTSC, SECAM-L, E/W ADJ. | |
| | | TDA8375 | PAL-B/G, SECAM-B/G, NTSC, SECAM-L, E/W ADJ.,16:9 | |
| IC301 | 3 | TDA8350Q | VERTICAL DEFLECTION AMP | |
| IC401 | 4 | KA7812 | REGULATOR (12V) | |
| IC501 | 5 | TDA6107Q | RGB DRIVE AMP | |
| IC601 | 6 | TDA7297 | SOUND-AMP (10W+10W) | |
| IC701 | 7 | TDA9859 | AUDIO PROCESSOR | |
| IC801 | 8 | KA3S0680<br>KA3S0880 | POWER IC 6A, 800V<br>POWER IC 8A, 800V | |
| IC802 | 9 | LTV817B | PHOTO COUPLER | |
| IC803 | 10 | KA78R05 | REGULATOR IC | |
| IC804 | 11 | KA7630 | REGULATOR (5V, 8V) | |
| ICT01 | 12 | SAA5281 P/E<br>SAA5281 P/H | TTX-DECODER | RUSSIAN |
| IC901 | 13 | SZM-199EA<br>SZM-199ER | μ-com | |
| IC902 | 14 | AT24C04<br>AT24C08 | $E^2$-PROM | |
| ICA01 | 15 | TDA9840 | SOUND PROCESSOR | SOUND MODULE |
| ICA02 | 16 | TDA9820 | INTER-CARRIER SOUND DEMODULATOR | SOUND MODULE |
| IC6001 | 17 | TDA9874H | NICAM+A2 SOUND DEMODULATOR | SOUND MODULE |
| ICL101 | 18 | TDA9177 | Y.U.V TRANSIENT IMPROVEMENT PROCESSOR | |

## Option: OSD Language

| Table 2-2 | | | |
|---|---|---|---|
| Loc No. | Specification | Description | Remarks |
| IC901 | SZM-199EA | ENG/ARAB/FRENCH | |
| | SZM-199EC | ENG/CHINESE | |
| | SZM-199EW | ENG/CRO/BUL/POLISH/RUMANIAN/CZECH/CRO | |
| | SZM-199EE | ENG/GER/FRENCH/SPANISH/SWEDISH/DUTCH/ITALIAN | |
| | SZM-199ET | ENG/MAL/IND/VIETNAMESE/THAI | |
| | SZM-199ER | ENG/RUSSIAN | |

## 2-3 Semiconductor Base Diagrams

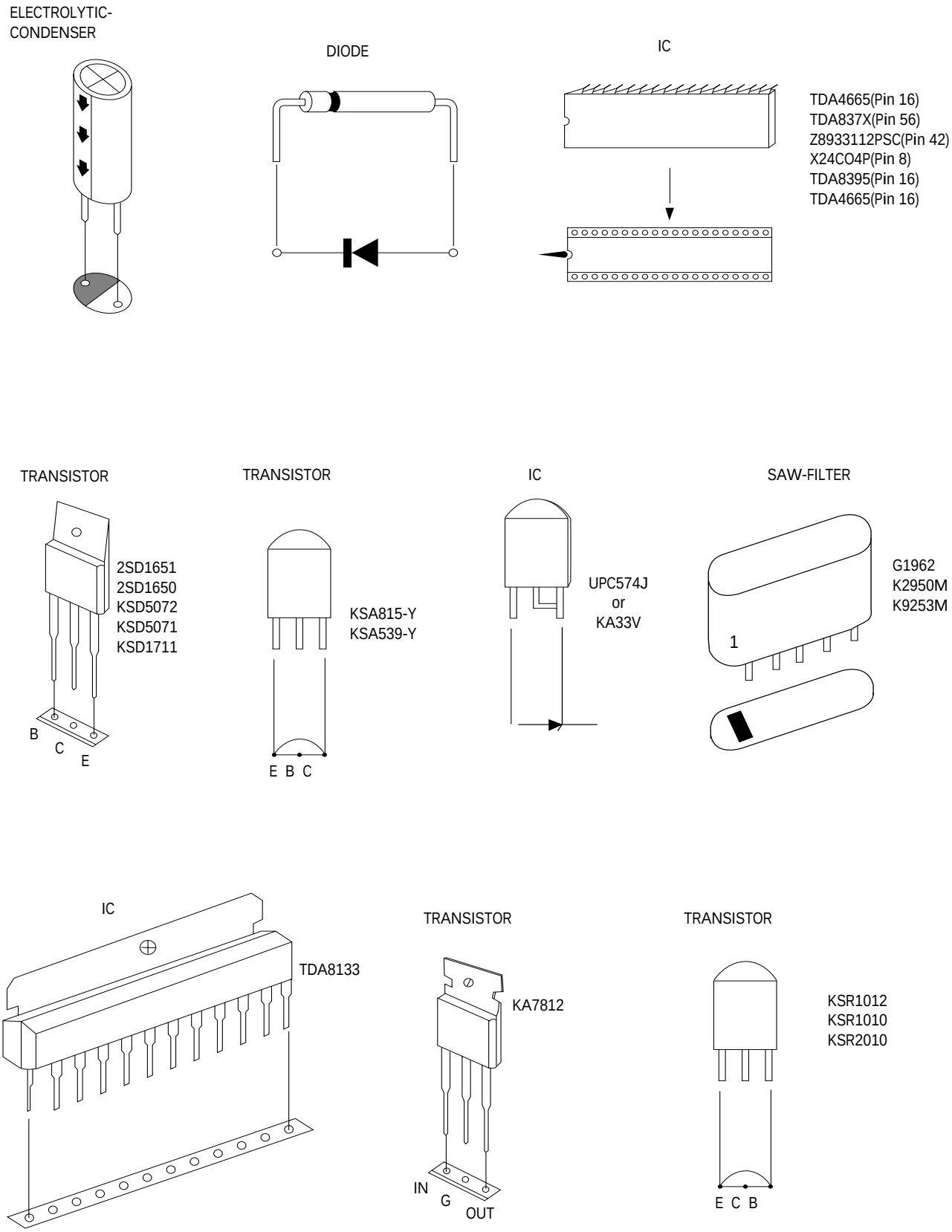
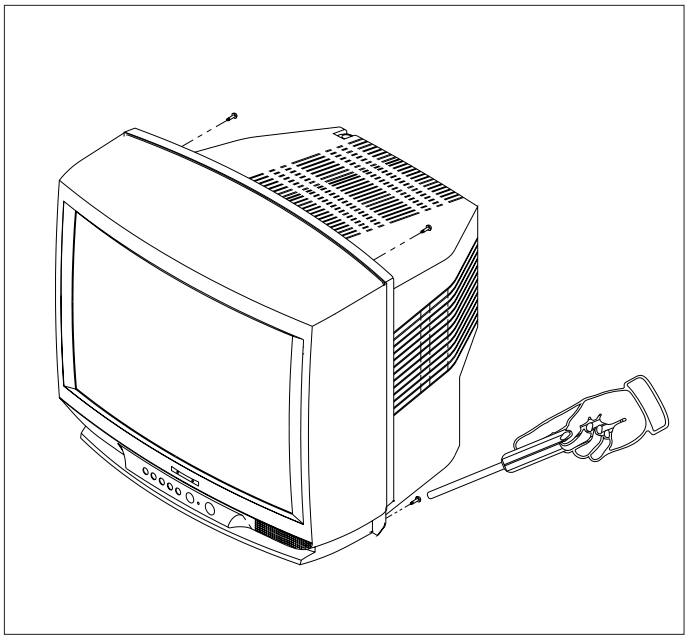


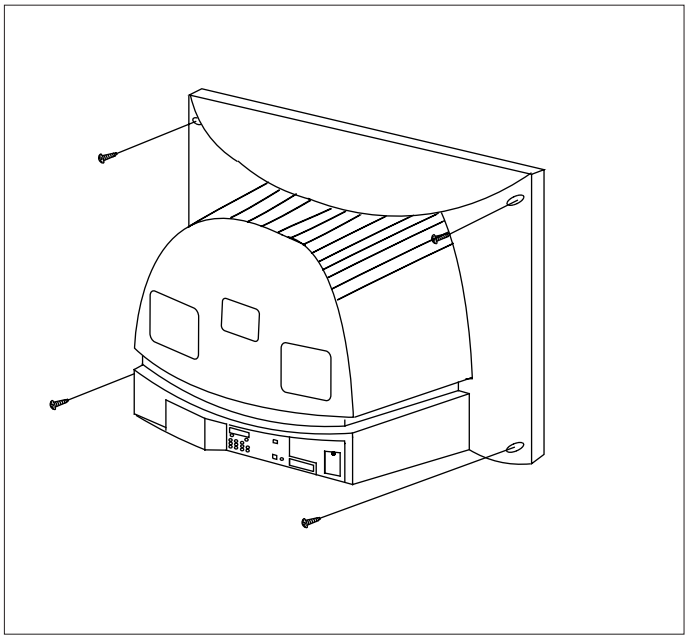

Fig.2-1 Semiconductor Base Diagrams

# 3. Disassembly and Reassembly

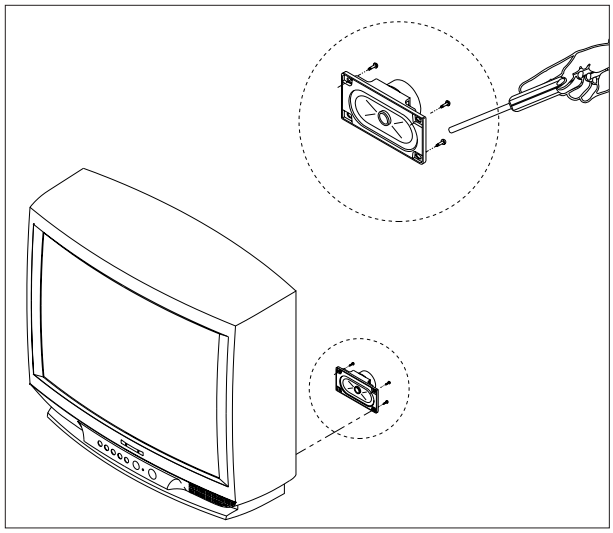
## 3-1 Back Cover Removal

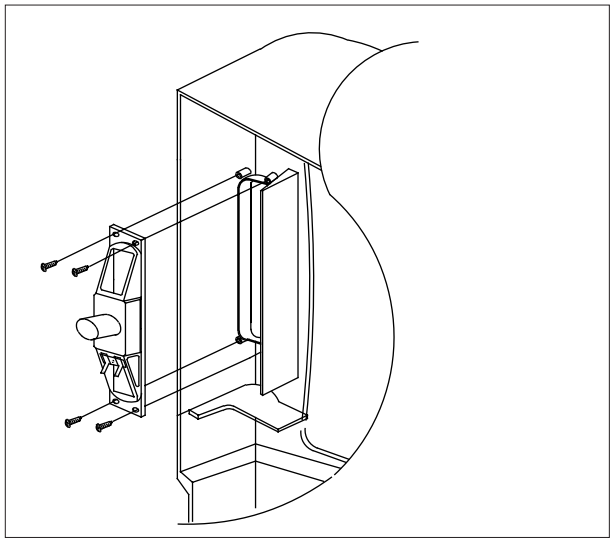


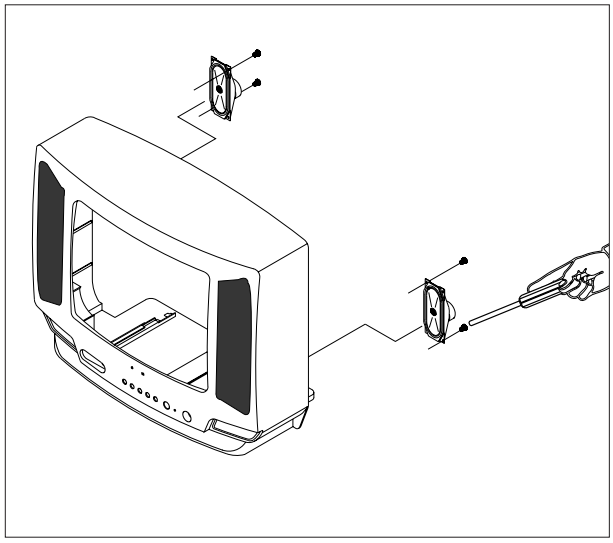
1. After removing the 9 screws, pull the cabinet backwards.



## 3-2 Speaker Removal

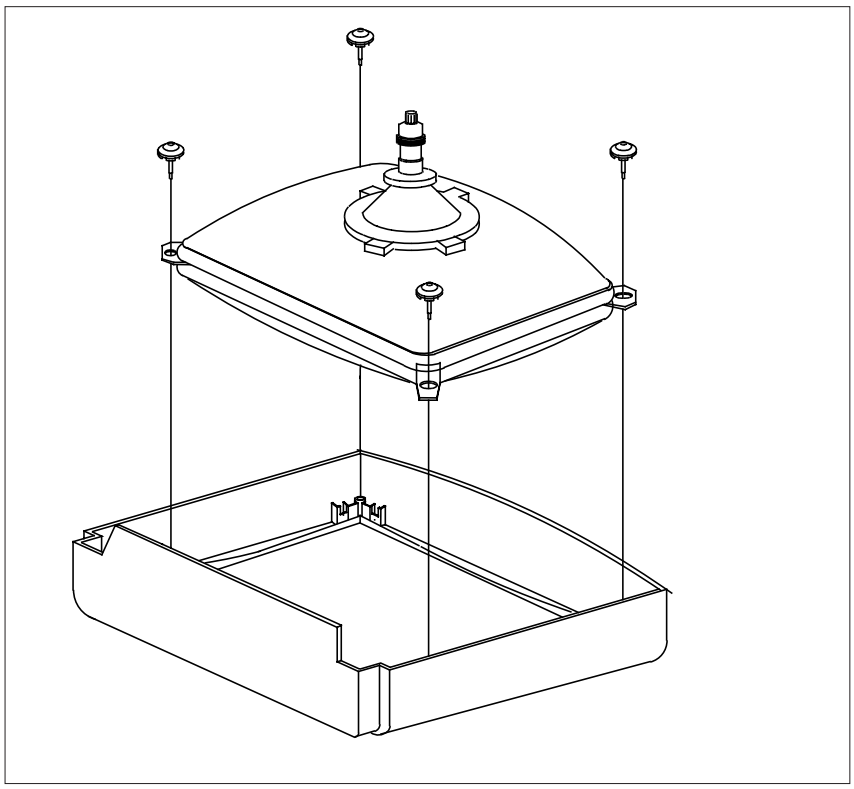






1. Loosen the 4 screws and remove the holder - speakers.

## 3-3 CRT Removal



1. Spread a soft mat on the floor. Place the TV set face down.
2. Remove the 4 screws mounting the CRT to the front cabinet.
3. Lift the CRT.

# MEMO

# 4. Alignment and Adjustments

## 4-1 Preadjustment

### 4-1-1 Factory Mode

1. Do not attempt these adjustments in the Video Mode.

2. The Factory Mode adjustments are necessary when either the EEPROM (IC902) or the CRT is replaced.

3. Do not tamper with the "Adjustment" screen of the Factory Mode menu. This screen is intended only for factory use.

### 4-1-2 When EEPROM (IC902) Is Replaced

1. When IC902 is replaced all adjustment data revert to initial values. It is necessary to re-program this data.

2. After IC902 is replaced, warm up the TV for 10 seconds

### 4-1-3 When CRT Is Replaced

1. Make the following adjustments AFTER setting up after setting up purity and convergence:

   White Balance
   Sub-Brightness
   Vertical Center
   Vertical Size
   Horizontal Size
   Fail Safe (This adjustment must be the last step.)

2. If the EEPROM or CRT is replaced, set PSL and PVA to 15 and 63 (Factory Mode).

## 4-2 Factory/Service Mode

### 4-2-1 Procedure for the "Adjustment" Mode

1. This mode uses the standard remote control. The Service Mode is activated (1) by pressing the (Display → (FACTORY) service key or (2) by entering the following remote-control sequence:

   STAND-BY→DISPLAY→ P-STD → MUTE → POWER ON

2. The "SERVICE (FACTORY)" message will be displayed. The Service Mode has four components: Adjustment, Test Pattern, Option Bytes and Reset.

3. Access the Adjustment Mode by pressing the "VOLUME" keys ( Up or Down). The adjustment parameters are listed in the accompanying table. Select them by pressing the CHANNEL keys (▲,▼).

4. Selection sequences for the PAL system:

   DOWN or UP key:

   VCO>SBT>SCT>SCR>SC>RG>CDL>STT>LCO>LA>PSL>PVS>PVA>PHS>PEW>PEP>PEC>PET>LSC>TSC>SA>NSL>NVS>NVA>NHS>NEW>NEP>NEC>NET

5. Selection sequences for the NTSC system:

   DOWN or UP key:
   NVS>NVA>NSL>NHS>NEW>NEP>NEC>NET

6. The VOLUME keys increase or decrease the adjustment values, (stored in the non-volatile memory when Adjustment Mode is cancelled).

7. Cancel the Adjustment Mode by re-pressing the "Factory" or "Power on" keys.

## 4-2-2 Main Adjustment Parameter

| Table 4-1 Main Adjustment Parameter (Zilog μ-com) | | | | |
|---|---|---|---|---|
| FUNCTION | OSD ABBREVIATION | RANGE | ADJUSTMENT DATA | INITIAL |
| AUTO GAIN CONTROL | AGC | 0 ~ 63 STEP | 15 | 15 |
| VOLTAGE CONTROLLED OSCILLATOR | VCO | 0 ~ 127 STEP | 60 ~ 75 | 63 |
| SUB BRIGHT | SBT | 0 ~ 23 STEP | 6 ~ 10 | 7 |
| SUB CONTRAST | SCT | 0 ~ 23 STEP | 7 | 7 |
| SUB COLOR | SCR | 0 ~ 23 STEP | 15 FIXED | 15 |
| S-CORRECTION | SC | 0 ~ 63 STEP | 11 FIXED | 11 |
| RED DRIVE (GAIN) | RG | 0 ~ 7 STEP | 25 ~ 45 | 31 |
| BLUE DRIVE (GAIN) | BG | 0 ~ 127 STEP | 25 ~ 45 | 31 |
| CATHODE DRIVE LEVEL | CDL | 0 ~ 9 STEP | - | 4 |
| SUB TINT | STT | 0 ~ 63 STEP | 0 ~ 10 | 5 |
| SECAM-L CONTROLLED OSCILLATOR | LCO | 0 ~ 63 STEP | 63 FIXED | 63 |
| SOUND LEVEL ADJUSTMENT | LA | 0 ~ 63 STEP | 5 | 5 |
| PAL VERTICAL SLOPE | PSL | 0 ~ 63 STEP | 20 ~ 25 | 25 |
| PAL VERTICAL SHIFT | PVS | 0 ~ 63 STEP | 25 ~ 35 | 31 |
| PAL VERTICAL AMPLITUDE | PVA | 0 ~ 63 STEP | 35 | 31 |
| PAL HORIZONTAL SHIFT | PHS | 0 ~ 63 STEP | 35 ~ 45 | 40 |
| PAL EW-WIDTH | PEW | 0 ~ 63 STEP | 35 ~ 45 | 38 |
| PAL EW-PARABOLA | PEP | 0 ~ 63 STEP | 0 ~ 10 | 22 |
| PAL EW CORNER PARABOLA | PEC | 0 ~ 63 STEP | 15 ~ 30 | 22 |
| PAL EW-TRAPEZIUM | PET | 0 ~ 63 STEP | 15 ~30 | 30 |
| VERTICAL SCROLL | VSC | 0 ~ 63 STEP | 31 FIXED | 25 |
| TTX SUB CONTRAST | TSC | 0 ~ 63 STEP | 10 ~ 30 | 15 |
| SEPARATION ADJUSTMENT | SA | 0 ~ 49 STEP | 25 | 25 |
| NTSC VERTICAL SLOPE | NSL | 0 ~ 63 STEP | 25 FIXED | 25 |

| Table 4-1 Main Adjustment Parameter (Zilog μ-com)(Continued) | | | | |
|---|---|---|---|---|
| FUNCTION | OSD ABBREVIATION | RANGE | ADJUSTMENT DATA | INITIAL |
| NTSC VERTICAL SHIFT | NVS | 0 ~ 63 STEP | 35 ~ 45 | 44 |
| NTSC VERTICAL AMPLITUDE | NVA | 0 ~ 63 STEP | 25 ~ 35 | 28 |
| NTSC HORIZONTAL SHIFT | NHS | 0 ~ 63 STEP | 35 ~ 50 | 45 |
| NTSC EW-WIDTH | NEW | 0 ~ 127 STEP | 35 ~ 45 | 37 |
| NTSC EW PARABOLA | NEP | 0 ~ 63 STEP | 15 ~ 30 | 21 |
| NTSC EW-CORNER PARABOLA | NEC | | | 20 |
| NTSC EW-TRAPEZIUM | NET | | | 30 |

NOTE : PVS,PVA, PHS, NVS, NVA,NHS parameters must be aligned using both the 50Hz and 60Hz vertical-field rates.

### 4-2-3 Test Pattern

1. This mode can be used during servicing, or for confirming that the convergence and purity adjustments are correct.

2. Access the Test Pattern parameters by pressing a CHANNEL keys (▲,▼) while the Service Mode is on. The cursor will move to the test pattern. Press the VOLUME keys. On-screen display:

   ■ RED
   ■ GREEN
   ■ BLUE

3. AGING Mode (Reference Only)

   This pattern is used for pre-heating the CRT during manufacturing--it is accessed in the factory by twice pressing the "HIDDEN" key .

   Even if the TV power is cut off, the Aging Mode is not cancelled, The patterns are displayed at 5 sec intervals. The AGING mode is cancelled by repressing the "HIDDEN" key.

## 4-2-4 MICOM Option Byte Table

<table>
<tr><th>BYTE</th><th>BIT</th><th>LOW</th><th>HIGH</th><th>REMARK</th></tr>
<tr><td rowspan="10">B<br>Y<br>T<br>E<br>0</td><td rowspan="2">D7<br>D6</td><td colspan="3"><table>
<tr><th>D7</th><th>D6</th><th>Middle East / Arab</th><th>South East / Asia</th><th>China</th><th>Western/Eastern</th><th>CIS</th></tr>
<tr><td>0</td><td>0</td><td>English/Arabian</td><td>English/Thai</td><td>English/<br>Chinese</td><td>English/German/French/<br>Spanish/Italian/Swedish/Dutch</td><td>-</td></tr>
<tr><td>0</td><td>1</td><td>English/Arabian/French</td><td>English/Vietnamese</td><td>-</td><td>English/Hungarian/Polish/<br>Rumanian/Czech/Croatian</td><td>English/<br>Russian</td></tr>
<tr><td>1</td><td>0</td><td>English/French</td><td>English/Malay</td><td>English</td><td>English/French</td><td>-</td></tr>
<tr><td>1</td><td>1</td><td>English Only</td><td>English/Malay/Indonesian</td><td>-</td><td>English</td><td>English</td></tr>
</table></td><td></td></tr>
<tr><td>D5</td><td></td><td>Auto On</td><td>Last Status</td></tr>
<tr><td>D4<br>D3<br>D2</td><td colspan="2">SYSTEM</td><td>TABLE 1</td></tr>
<tr><td>D1</td><td>WITH CHILD LOCK</td><td>WITHOUT CHILD LOCK</td><td>FOR MIDDLE EAST</td></tr>
<tr><td>D0</td><td>NO TTX (ATS = ON)</td><td>TTX (ATS=OFF)</td><td></td></tr>
<tr><td rowspan="6">B<br>Y<br>T<br>E<br>1</td><td>D7</td><td>WITHOUT PIP</td><td>WITH PIP</td><td></td></tr>
<tr><td>D6</td><td>NOISE REDUCTION OFF(ALWAYS)→OSD<br>NO DISPLAY (TDA8842)</td><td>NOISE REDUCTION ON/OFF<br>FUNCTION MENU DISPLAY (TDA8844)</td><td></td></tr>
<tr><td>D5</td><td>SCART : CH UP/DOWN FUNCTIONED</td><td>RCA : NOT CH UP/DOWN FUNCTIONED</td><td></td></tr>
<tr><td>D4<br>D3<br>D2</td><td colspan="2"><table>
<tr><th>D4</th><th>D3</th><th>D2</th><th>TV</th><th>AV</th></tr>
<tr><td>0</td><td>0</td><td>0</td><td>PLUS→NORMAL</td><td>PLUS→NORMAL</td></tr>
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<tr><td>0</td><td>1</td><td>0</td><td>NORMAL→ZOOM→16:9</td><td>NORMAL→ZOOM→16:9</td></tr>
<tr><td>0</td><td>1</td><td>1</td><td>NORMAL→ZOOM→16:9</td><td>NORMAL→ZOOM</td></tr>
<tr><td>1</td><td>0</td><td>0</td><td>NORMAL→ZOOM</td><td>NORMAL→ZOOM</td></tr>
<tr><td>1</td><td>0</td><td>1</td><td>PLUS→NORMAL→ZOOM</td><td>PLUS→NORMAL→ZOOM</td></tr>
</table></td><td>■ NORMAL MODE E/W<br>DATA=PLUS + 9<br>■ PLUS MODE PHS DATA=<br>PLUS - 1 (PAL/NT)</td></tr>
<tr><td>D1<br>D0</td><td colspan="2"><table>
<tr><th>D1</th><th>D0</th><th>SYSTEM</th><th>REMARK</th></tr>
<tr><td>0</td><td>0</td><td>B/G</td><td rowspan="4">"MEMORY" BY<br>PROGRAM<br>CHANNELS<br>REQUIRED</td></tr>
<tr><td>0</td><td>1</td><td>D/K</td></tr>
<tr><td>1</td><td>0</td><td>I</td></tr>
<tr><td>1</td><td>1</td><td>B/G & D/K & M</td></tr>
</table></td><td>1) SOUND SYSTEM DURING THE AUTO SEARCH<br>2) SOUND SYSTEM DURING THE FACTORY MODE RESET<br>3) MANUAL SEARCH (SYSTEM DOES NOT MATTER)</td></tr>
<tr><td>OTHER</td><td colspan="3">1) HIGH FOR XA/XB (ALWAYS) : CRYSTAL 3.58MHz/4.43MHz CONSTANT<br>2) AUDIO MUTE DURING NO SIGNAL (ALWAYS) 3) SET THE CONTRAST TO 90 IN THE STANDARD PICTURE</td></tr>
</table>

## 4-2-4 MICOM Option Byte Table

<table>
<tr><th>BYTE</th><th>BIT</th><th colspan="2">LOW</th><th colspan="2">HIGH</th><th>REMARK</th></tr>
<tr><td rowspan="9">B<br>Y<br>T<br>E<br>0</td><td rowspan="2">D7</td><td colspan="3" rowspan="2"><table>
<tr><th>D7</th><th>D6</th><th>SYSTEM</th><th>IC</th><th>A/V</th></tr>
<tr><td>0</td><td>0</td><td>STEREO + NICAM</td><td>TDA9859 /TDA9874</td><td rowspan="3">SCART<br>+ FRONT RCA</td></tr>
<tr><td>0</td><td>1</td><td>STEREO</td><td>TDA9859 / TDA9840</td></tr>
<tr><td rowspan="2">D6</td><td>1</td><td>0</td><td>LINE STEREO</td><td>TDA9859</td><td rowspan="2"></td></tr>
<tr><td>1</td><td>1</td><td>MONO</td><td>TDA8844</td><td>1 SCART/RCA</td></tr>
</table></td><td></td></tr>
<tr><td>D5</td><td colspan="2">WITHOUT TDA9178</td><td colspan="2">WITH TDA9178</td><td>FOR EUROPE CIS</td></tr>
<tr><td>D4</td><td colspan="2">-</td><td colspan="2">NICAM ERROR CHECK BIT</td><td></td></tr>
<tr><td>D3</td><td colspan="2">AFT-ON</td><td colspan="2">AFT - OFF</td><td>INDIA ONLY</td></tr>
<tr><td>D2</td><td colspan="2">TDA8375</td><td colspan="2">TDA8844</td><td></td></tr>
<tr><td>D1</td><td colspan="2">RF AUDIO OUT MUTE OFF</td><td colspan="2">RF AUDIO OUT MUTE ON</td><td></td></tr>
<tr><td>D0</td><td colspan="2">D/K STEREO F = 6.752</td><td colspan="2">D/K STEREO F = 6.25'</td><td></td></tr>
<tr><td>D0</td><td colspan="2">CLOCK DISPLAY OFF</td><td colspan="2">CLOCK DISPLAY ON</td><td>SZM-199EV ONLY</td></tr>
</table>

## 4-2-5 TABLE 1 (SYSTEM)

| BYTE 0 | | | SYSTEM | SOUND SYSTEM | | SOUND SYSTEM | | | |
|---|---|---|---|---|---|---|---|---|---|
| D4 | D3 | D2 | | OSD | SYSTEM | RF MODE | | AV1/ AV2 MODE | |
| | | | | | | OSD | SYSTEM | OSD | SYSTEM |
| 1 | 1 | 1 | CI | X | I | X | PAL | X | AUTO |
| 1 | 1 | 0 | CII | X | I | X | PAL | X | AUTO |
| 1 | 0 | 1 | CW | B/G→I→D/K→ | | AUTO→PAL→SECAM→NT4.43→ | | AUTO→PAL→SECAM→NT4.43→NT3.58 | |
| 1 | 0 | 0 | CF | X | B/G, L/L' | X | PAL/SECAM | X | AUTO |
| 0 | 1 | 1 | CK/CX | B/G→D/K | | AUTO→PAL→SECAM→NT4.43→ | | AUTO→PAL→SECAM→NT4.43→ | |
| 0 | 1 | 0 | CB | X | B/G | X | PAL | X | AUTO |
| 0 | 0 | 1 | CS 1 | B/G→I→D/K→M | | AUTO→PAL→NT4.43→NT3.58→ | | AUTO→PAL→NT4.43→NT3.58→ | |
| 0 | 0 | 0 | CS 2 | B/G→I→D/K→M | | AUTO→PAL→SECAM→NT4.43→NT3.58 | | AUTO→PAL→SECAM→NT4.43→NT3.58 | |

## 4-2-6 RESET

The Reset Mode is used during factory inspection.
Function Reset:

1. Channels — Add/Erase
2. Sort — Non
3. Language — Basic (English)
4. System — Auto (Non-TTX micom only)

# 4-3 Other Adjustments

## 4-3-1 General

1. Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.
2. The picture should have good black and white details. There should be no objectionable color shading; if color shading is present, perform the purity and convergence adjustments described below.
3. Use the specified test equipment or its equivalent.
4. Correct impedance matching is essential.
5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.
6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
8. To protect against shock hazard, use an isolation transformer.

## 4-3-2 Automatic Degaussing

A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set has been moved or turned in a different direction, disconnect its AC power for at least 10 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before removing power.

### 4-3-3 High Voltage Check

*CAUTION: There is no high voltage adjustment on this chassis. The $B^+$ power supply must be set to +130/155 volts. (Full color bar input and normal picture level).*

1. Connect a digital voltmeter to the second anode of the picture tube.
2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).
3. The high voltage should not exceed 30KV.
4. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 30KV under any conditions.

### 4-3-4 FOCUS Adjustment

1. Input a black and white signal.
2. Adjust the tuning control for the clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

### 4-3-5 Screen Adjustment

1. Connect CRT socket pin RK to an oscilloscope probe.
2. Input a gray scale pattern. (Use a pattern generator, PM5518)
3. Use the P mode key (on the remote control) for the STANDARD picture.
4. Adjust the Screen VR (on the FBT) so that the voltage (See Fig.4-1.) on the oscilloscope becomes 130 ± 2.5V.

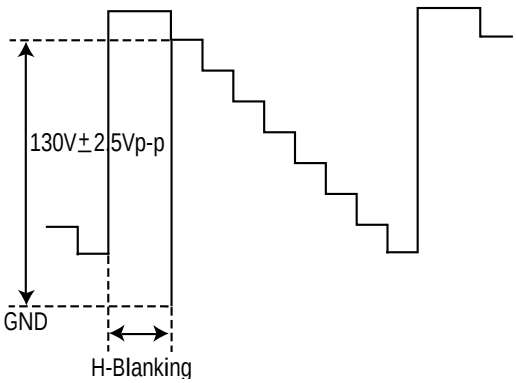



Fig. 4-1

### 4-3-6 Purity Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Plug in the CRT deflection yoke and tighten the clamp screw.
3. Plug the convergence yoke into the CRT and set in as shown in Fig. 4-1.
4. Input a black and white signal.
5. Fully demagnetize the receive by applying an external degaussing coil.
6. Turn the CONTRAST and BRIGHTNESS controls to maximum.
7. Loosen the clamp screw holding the yoke. Slide the yoke backward or forward to provide vertical green belt. (Fig. 4-2).
8. Tighten the convergence yoke.
9. Slowly move the deflection yoke forward, and adjust for the best overall green screen.
10. Temporarily tighten the deflection yoke.
11. Produce blue and red rasters by adjusting the low-light controls. Check for good purity in each field.
12. Tighten the deflection yoke.

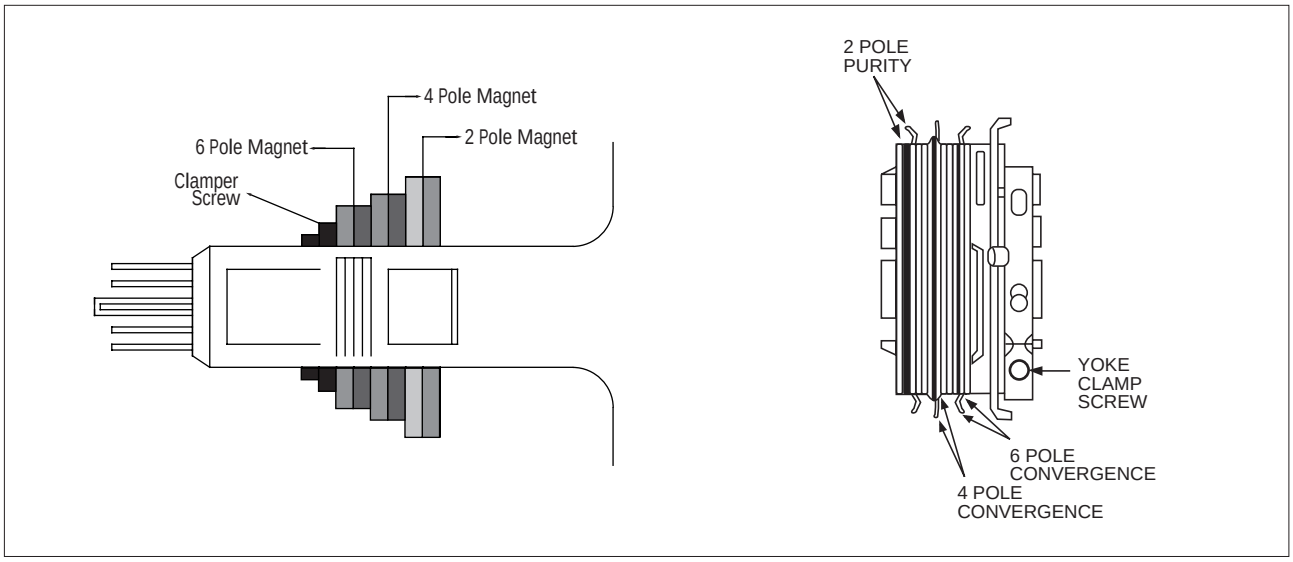



Fig. 4-2 Convergence Magnet Assembly

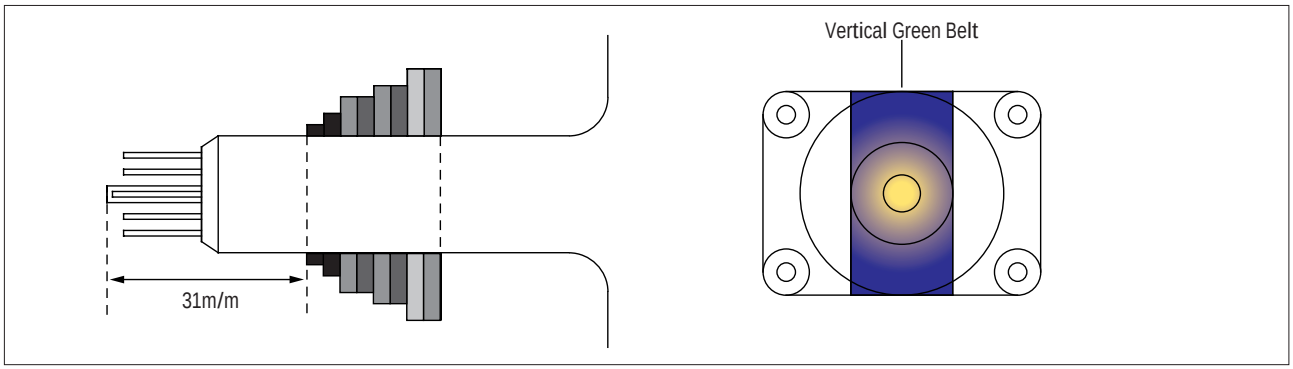



Fig. 4-3 Center Convergence Adjustment

## 4-3-7 White Balance Adjustment

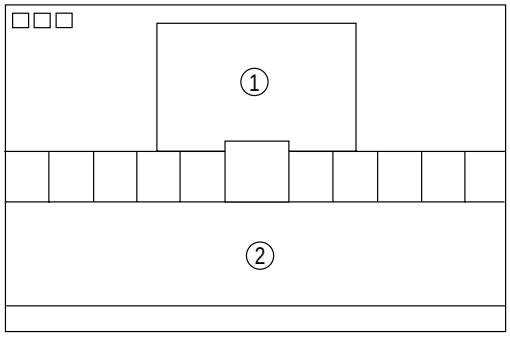



Fig. 4-4

(a) Set up

1. Warm up the TV for at least 30 minutes in the Aging Mode(Test Pattern). This mode is displayed by entering the following sequence:

   DISPLAY→FACTORY (Select Test Pattern)

2. Input a Toshiba pattern.

(b) High-Light Adjustment

1. Set SCT to 50 fL in the Factory Service Mode using CA100. (See Fig. 4-4 ❶)

(c) Low-Light Adjustment

1. Set SBT to 1.2 fL in the Factory Service Mode using CA100. (See Fig. 4-4 ❷ )

## 4-3-8 Center Convergence Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Adjust the Brightness and Contrast controls for a well defined picture.
3. Adjust the two-tab pairs of the 4 pole magnets, and change the angle between them. Superimpose the red and the blue vertical lines in the center area of the screen.
4. Turn the both tabs at the same time, keeping the angle constant, and superimpose the red and blue horizontal line in the center of the screen.
5. Adjust the two-tab pairs of the 6-pole magnets to superimpose the red and blue line onto the green. (Changing the angle affects the vertical lines, and rotating both magnets affects the horizontal lines.)
6. Repeat adjustments 2~6, if necessary.
7. Since the 4-pole magnets and 6-pole magnets interact, the dot movement is complex (Fig. 4-3).

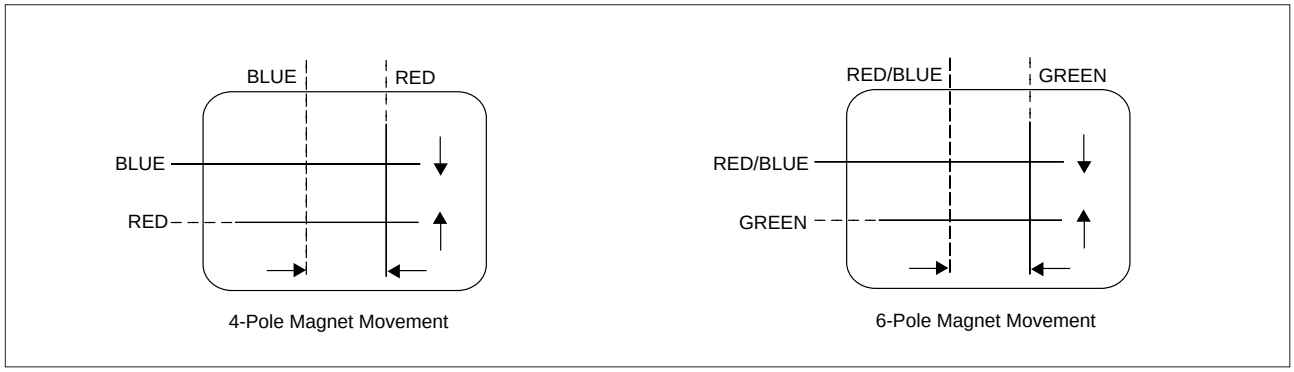



Fig . 4-5 Center Convergence Adjustment

## 4-3-9 VCO Adjustment

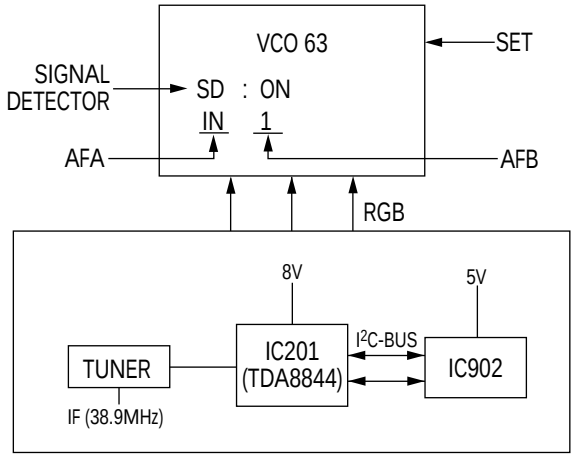



Fig. 4-6

1. Turn on the TV.
2. Set IF port of a tuner to 38.9MHz. (Use a pattern generator).
3. Input a color bar pattern(PAL-B/G system).
4. In the Factory Service Mode, select "Adjustment → VCO" and set VCO data to 63.
5. Ensure "SD On" (Signal Input) and "SD Off" (No Signal).
6. Adjust T201 (connected to TDA8844 pins3,4) so that AFA Bit is "INSIDE WINDOW" (the AFB Bit is 1).

### 4-3-10 RF AGC Adjustment

1. Connect a pattern generator (PM5418) RF signal to tuner RF.

2. Select a gray scale pattern and PAL-B/G system.
   Set to 479.25MHz.

3. Connect IC201 (ONECHIP) pin 53 to a digital multimeter.

4. Adjust AGC (using volume keys) in the Factory Service Mode.
   Set IC201 (ONECHIP) pin 54 to 3.7 $\pm$ 0.05v(DC).

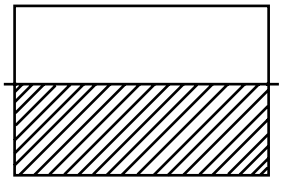
5. Adjust AGC within 20 seconds after power ON.

### 4-3-11 Geometry Adjustment (SC -> PVS -> PVA ->PSL -> PHS)

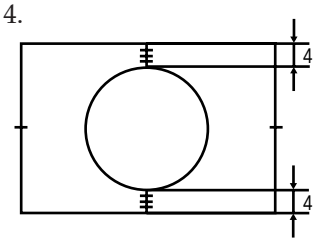
1. Input a Lion Head pattern.

2. SET the SC Data steps 10~12 in the Factory Mode.

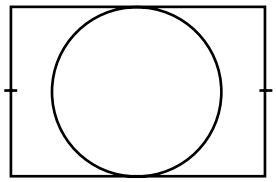
3. Adjust with PVS (starts blinking) exactly at middle of the screen.



4. Adjustment with PVA : Top and Bottom margins of the picture are 4.




5. Adjustment with PSL : Bottom of picture to bottom of screen.

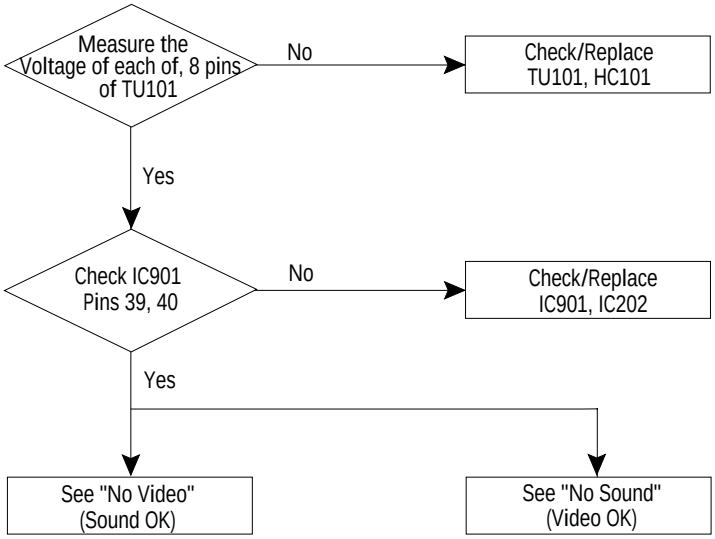


6. Adjust PHS horizontally. Center the picture.

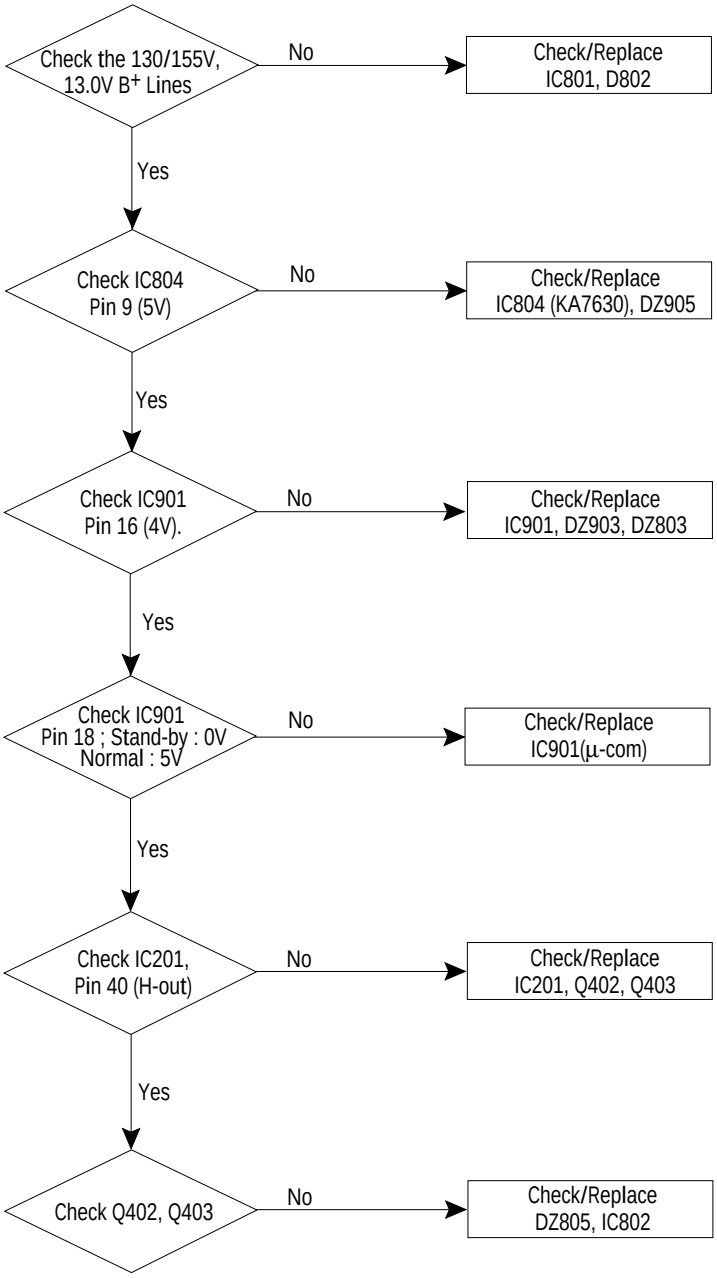
# MEMO

# 5. Troubleshooting

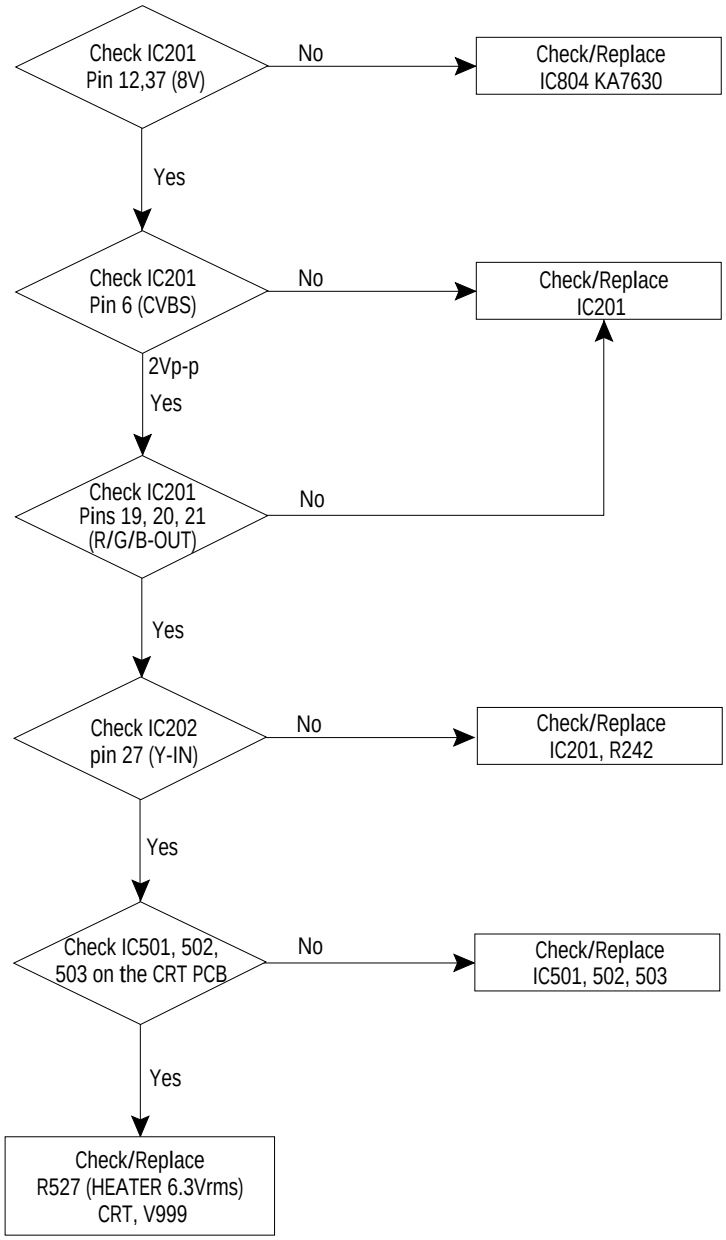
## 5-1 No Video (Raster On, No Sound)



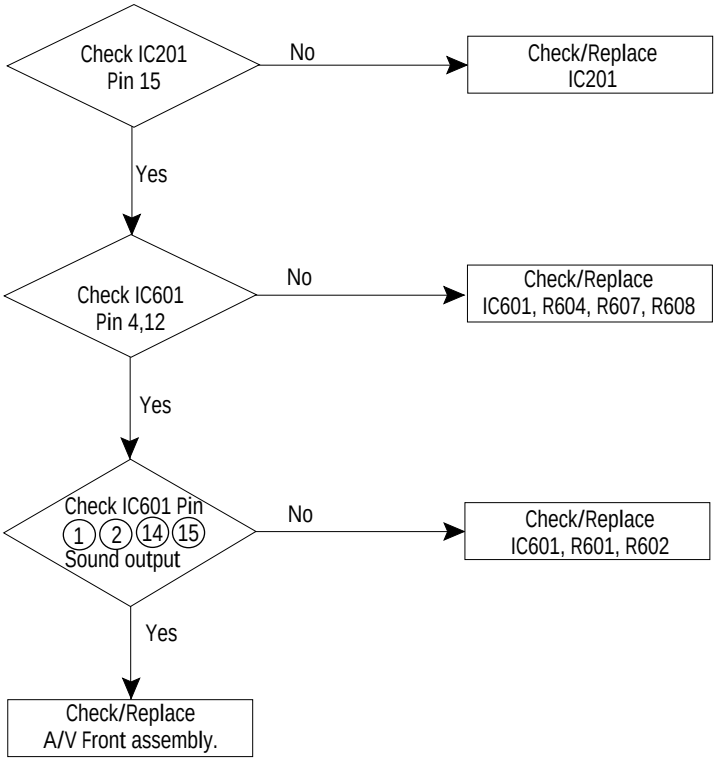
## 5-2 No Power


Check the 130/155V, 13.0V B+ Lines
No
Check/Replace IC801, D802
Yes
Check IC804 Pin 9 (5V)
No
Check/Replace IC804 (KA7630), DZ905
Yes
Check IC901 Pin 16 (4V).
No
Check/Replace IC901, DZ903, DZ803
Yes
Check IC901 Pin 18 ; Stand-by : 0V Normal : 5V
No
Check/Replace IC901(μ-com)
Yes
Check IC201, Pin 40 (H-out)
No
Check/Replace IC201, Q402, Q403
Yes
Check Q402, Q403
No
Check/Replace DZ805, IC802

## 5-3 No Video (Sound OK)

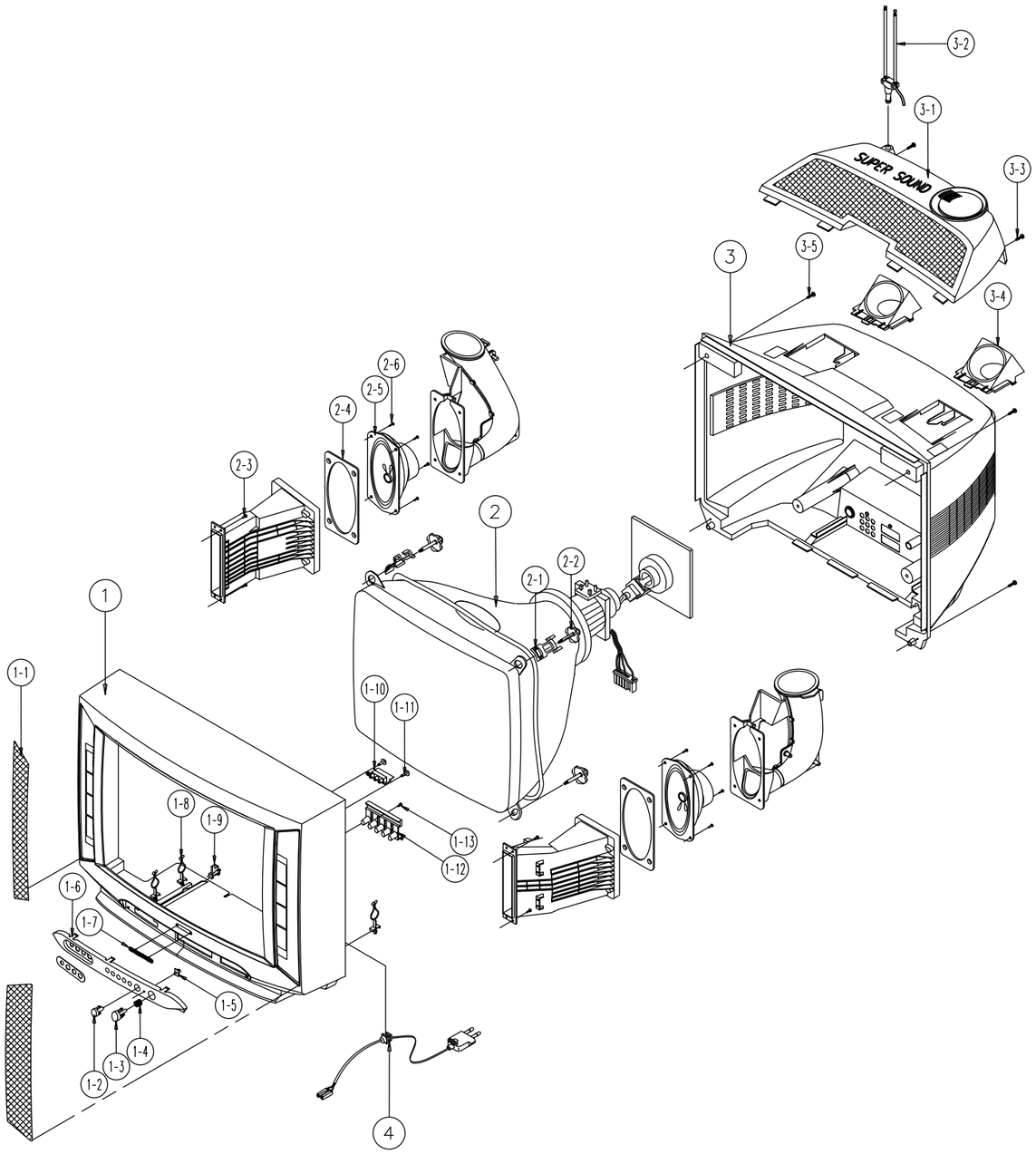


## 5-4 No Sound (Video OK)



# 6. Exploded View & Parts List

## 6-1 CK569BGT1X/BWT(VWT)




| No | Code No | Description | Specification | Q'ty | Remark |
|---|---|---|---|---|---|
| 1 | AA91-10336J | ASSY-CABINET,FRONT | -,CK569BGTR,BK708P BWT,HB,BLK | 1 | |
| | AA64-31129E | CABINET-FRONT | -,569B,BK708P BWT,HIPS,HB,BLK, | 1 | |
| 1-1 | AA63-50336A | GRILLE-WOOFER,L | -,569B,-,SECC,T0.5,BLK,- | 1 | |
| | AA63-50337A | GRILLE-WOOFER,R | -,569B,-,SECC,T0.5,BLK,- | 1 | |
| 1-2 | AA64-40431A | WINDOW-REMOCON | -,503E,-,ABS,HB,LG41338,- | 1 | |
| 1-3 | AA64-10716A | KNOB-POWER | -,566B,-,ABS,HB,MET BROWN | 1 | |
| 1-4 | AA61-60003T | SPRING-CS | -,SUS304,0.5,OD7,H13.5,N5,-,-, | 1 | |
| 1-5 | AA64-40432A | INDICATOR-LED | -,503E,-,PMMA,HB,CLR,- | 1 | |
| 1-6 | AA64-40466L | DECORATION-FRONT | -,CK569BGTR,KSP213 ML,HIPS,V0, | 1 | |
| 1-7 | AA64-70010B | BADGE-BRAND | AL,SS R2000 25,SILVER,L50,-,-, | 1 | |
| 1-8 | AA65-30105A | CLAMP-WIRE | NYLON 66,V2,NTR,15MM,ALL MODEL | 2 | |
| 1-9 | AA61-40053A | STOPPER-PCB | ALL MODEL,HIPS HB,WHT,HB,-,- | 1 | |
| 1-10 | AA95-40004M | ASSY-PCB,A/V | -,CS5377/MVTX,SCT12A,-,-,- | 1 | |
| 1-11 | AA60-10002A | SCREW-TAPPING | RH,+,M4,L12,ZPC(YEL),-,OD14 | 2 | |
| 1-12 | AA64-10717A | KNOB-CONTROL | -,-,-,ABS,HB,MET BROWN | 1 | |
| 1-13 | 6002-000514 | SCREW-TAPPING | RH,+,2,M4,L15,ZPC(BLK),SWR | 1 | |
| 2 | AA03-10026K | CRT-COLOR | -,A53QCA891X(B),+380mG,21,90d | 1 | |
| 2-1 | AA65-30019A | CLAMP-D,COIL | NYLON-66,V0,NTR,DADH-460 20,- | 4 | |
| 2-2 | 3704-000110 | SOCKET-CRT | 14P,29.1,25.5,SN,ISHS09S/BK | 4 | |
| 2-3 | | ASSY-HOLDER,SPK OPTION | | | |
| 2-4 | | ASSY-HOLDER,SPK OPTION | | | |
| 2-5 | AA91-60207A | ASSY-HOLDER,SPK | -,M-PP,HB,BLK/HORN,168mm,8R15W | 1 | |
| 2-6 | 6002-000522 | SCREW-TAPPING | TH,+,2,M4,L15,ZPC(BLK),SWRCH18 | 8 | |
| 3 | AA64-31131C | CABINET-BACK | -,569B,-,HIPS,V2,BLK,-,- | 1 | |
| 3-1 | AA63-30214A | COVER-TOP,SPK | -,569B,PK708P,HIPS,HB,BLK,-,- | 1 | |
| 3-2 | AA42-10001V | ANT-ROD | -,3S,620mm,BRN,UL/CSA | 1 | |
| 3-3 | AA60-10050T | SCREW-TAPPING | RH,+,2S,M4,L20,ZPC(BLK),SWRCH1 | 2 | |
| 3-4 | | ASSY-HOLDER,SPK OPTION | | | |
| 3-5 | AA60-10050T | SCREW-TAPPING | RH,+,2S,M4,L20,ZPC(BLK),SWRCH1 | 4 | |
| 4 | AA61-20284A | HOLDER | -,P-CORD,PP,VO,BLK,KE-002 | 1 | |

# 7. Electric Parts List

## 7-1 CK569BGT1X/BWT (VWT)

| Loc. No. | Code No. | Description ; Specification | Remark |
|---|---|---|---|
| | | **ASSY-PCB,MAIN(OPT)** | |
| | | BUYER : CIS (RUSSIA) | |
| * | AA94-10132X | ASSY-PCB,MAIN(OPT);CK569BGT1X/BWT,SCT57B,RUSSIA,- | |
| | AA94-10134D | ASSY-PCB,MAIN(OPT);CK569BGT1X/VWT,SCT57B,N-RUSIA | |
| C101 | 2401-000758 | C-AL;220nF,20%,50V,GP,TP,5x11mm,5mm | |
| C102 | 2401-000832 | C-AL;220uF,20%,25V,GP,TP,8x11.5,5mm | |
| C103 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C104 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C105 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C106 | 2401-001082 | C-AL;330nF,20%,50V,GP,TP,5x11mm,5mm | |
| C107 | 2401-000914 | C-AL;22uF,20%,16V,-,TP,5x11,5mm | |
| C108 | 2401-001537 | C-AL;47uF,20%,25V,GP,TP,6.3x7mm,5mm | |
| C109 | 2202-000127 | C-CERAMIC,MLC-AXIAL;10nF,+80-20%,25V,Y5V,TP,-,7.5 | |
| C209 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,- | |
| C210 | 2305-000149 | C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5,5 | |
| C211 | 2401-001537 | C-AL;47uF,20%,25V,GP,TP,6.3x7mm,5mm | |
| C213 | 2301-000224 | C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m | |
| C214 | 2401-000660 | C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm | |
| C215 | 2305-000412 | C-FILM,MPEF;470nF,5%,63V,TP,-,5mm | |
| C216 | 2401-001840 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm | |
| C217 | 2305-000665 | C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm, | |
| C218 | 2305-000412 | C-FILM,MPEF;470nF,5%,63V,TP,-,5mm | |
| C219 | 2401-001537 | C-AL;47uF,20%,25V,GP,TP,6.3x7mm,5mm | |
| C220 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm | |
| C221 | 2305-000288 | C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm, | |
| C222 | 2305-000412 | C-FILM,MPEF;470nF,5%,63V,TP,-,5mm | |
| C223 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C224 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C225 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C226 | 2401-002235 | C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm | |
| C227 | 2201-000986 | C-CERAMIC,DISC;12pF,5%,50V,NPO,TP,5x3mm,2.5mm | |
| C228 | 2201-000257 | C-CERAMIC,DISC;16pF,5%,50V,CH,TP,5x3,5 | |
| C229 | 2301-000285 | C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5mm | |
| C230 | 2301-000192 | C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm | |
| C231 | 2202-000183 | C-CERAMIC,MLC-AXIAL;2.2nF,20%,16V,Y5R,TP,3.5x19,- | |
| C232 | 2305-000412 | C-FILM,MPEF;470nF,5%,63V,TP,-,5mm | |
| C233 | 2309-000138 | C-FILM,PE-PPF;100nF,5%,50V,TP,20x16x8.5,7.5m | |
| C234 | 2305-000288 | C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm, | |
| C235 | 2202-000162 | C-CERAMIC,MLC-AXIAL;15pF,5%,50V,SL,TP,3.5x19,- | |
| C236 | 2202-000253 | C-CERAMIC,MLC-AXIAL;4.7nF,20%,16V,Y5R,TP,1.9x3.5,7 | |
| C237 | 2401-000480 | C-AL;10uF,20%,50V,GP,TP,5x11,5 | |
| C238 | 2301-000380 | C-FILM,PEF;10nF,5%,50V,TP,6.5x3mm,5mm | |
| C239 | 2301-000264 | C-FILM,PEF;4.7nF,5%,50V,TP,6.5X5.5X3.0X5, | |
| C240 | 2401-001537 | C-AL;47uF,20%,25V,GP,TP,6.3x7mm,5mm | |
| C241 | 2401-000603 | C-AL;1uF,20%,50V,GP,TP,5x11mm,5mm | |
| C242 | 2202-000183 | C-CERAMIC,MLC-AXIAL;2.2nF,20%,16V,Y5R,TP,3.5x19,- | |
| C243 | 2401-000603 | C-AL;1uF,20%,50V,GP,TP,5x11mm,5mm | |
| C244 | 2202-000199 | C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V,TP,-,7.5 | |
| C245 | 2305-000665 | C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm, | |
| C246 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C255 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C256 | 2202-000830 | C-CERAMIC,MLC-AXIAL;82pF,10%,50V,Y5P,TP,3.5x19,- | |
| C301 | 2305-000412 | C-FILM,MPEF;470nF,5%,63V,TP,-,5mm | |
| C302 | 2401-003028 | C-AL;100uF,20%,25V,WT,TP,6.3x11,5mm | |
| C303 | 2401-001661 | C-AL;68uF,20%,100V,GP,TP,10x16mm,5m | |
| C304 | 2305-000149 | C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5,5 | |
| C305 | 2305-000149 | C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5,5 | |
| C306 | 2301-000188 | C-FILM,PEF;1nF,5%,100V,TP,10.5x12.5x6.5,5 | |
| C402 | 2301-000380 | C-FILM,PEF;10nF,5%,50V,TP,6.5x3mm,5mm | |
| C403 | 2401-000901 | C-AL;22uF,20%,160V,GP,TP,10x20mm,5m | |
| C404 | 2201-000291 | C-CERAMIC,DISC;1nF,10%,500V,Y5P,TP,8.5x5MM,5 | |
| C405 | 2401-002268 | C-AL;2.2uF,20%,250V,LZ,TP,8X11,5 | |
| C406 | 2306-000187 | C-FILM,MPPF;330nF,5%,400V,BK,26x20.5x13.5, | |
| C407 | 2201-000984 | C-CERAMIC,DISC;680pF,10%,2KV,Y5P,TP,11x6,7.5m | |
| C408 | 2305-000382 | C-FILM,MPEF;4.7nF,5%,400V,TP,-,5mm | |
| C409 | 2201-000556 | C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4,5 | |
| C410 | 2401-001661 | C-AL;68uF,20%,100V,GP,TP,10x16mm,5m | |
| C411 | 2305-000178 | C-FILM,MPEF;10nF,5%,100V,TP,-,5mm | |
| C412 | 2201-000599 | C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4,5 | |
| C413 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm | |
| C415 | 2306-000326 | C-FILM,MPPF;4.7nF,5%,1.6KV,TP,28.5x16x9mm, | |
| C416 | 2303-001004 | C-FILM,PPF;15nF,5%,400V,TP,20x6.5x13,7.5m | |
| C418 | 2201-000556 | C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4,5 | |
| C419 | 2401-001397 | C-AL;470uF,20%,25V,GP,TP,10x16mm,5m | |
| C420 | 2305-000288 | C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm, | |
| C421 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm | |
| C422 | 2305-000665 | C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm, | |
| C423 | 2201-000556 | C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4,5 | |
| C424 | 2401-002278 | C-AL;22uF,20%,250V,WT,TP,13x21,5 | |
| C425 | 2305-000154 | C-FILM,MPEF;100nF,5%,400V,TP,21.5x6.5x11.5 | |
| C426 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm | |
| C427 | 2201-000406 | C-CERAMIC,DISC;270pF,10%,2KV,Y5P,TP,8x6,7.5 | |
| C502 | 2201-000315 | C-CERAMIC,DISC;2.2nF,+80-20%,250VAC,Y5U,TP,9x | |
| C503 | 2201-000969 | C-CERAMIC,DISC;10nF,+80-20%,3KV,Y5V,TP,-,10mm | |
| C504 | 2401-001232 | C-AL;4.7uF,20%,250V,GP,TP,10x12.5mm | |
| C506 | 2401-000430 | C-AL;10uF,20%,250V,GP,TP,10x16mm,5m | |
| C507 | 2202-000862 | C-CERAMIC,MLC-AXIAL;390pF,10%,50V,Y5P,TP,3.5x1.9,- | |
| C508 | 2202-000862 | C-CERAMIC,MLC-AXIAL;390pF,10%,50V,Y5P,TP,3.5x1.9,- | |
| C509 | 2202-000862 | C-CERAMIC,MLC-AXIAL;390pF,10%,50V,Y5P,TP,3.5x1.9,- | |
| C601 | 2401-000587 | C-AL;1uF,20%,50V,BP,TP,5x11,5mm | |
| C602 | 2301-000264 | C-FILM,PEF;4.7nF,5%,50V,TP,6.5X5.5X3.0X5, | |
| C603 | 2401-000660 | C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm | |
| C604 | 2301-000192 | C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm | |
| C605 | 2401-000587 | C-AL;1uF,20%,50V,BP,TP,5x11,5mm | |
| C606 | 2301-000264 | C-FILM,PEF;4.7nF,5%,50V,TP,6.5X5.5X3.0X5, | |
| C607 | 2401-001998 | C-AL;1000uF,20%,25V,GP,TP,10x20,5mm | |
| C705 | 2305-000288 | C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm, | |
| C707 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm | |
| C709 | 2305-000665 | C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm, | |
| C710 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm | |
| C712 | 2401-000440 | C-AL;10uF,20%,25V,GP,TP,5x11mm,5mm | |
| C713 | 2301-000247 | C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5m | |
| C714 | 2301-000289 | C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3,5 | |
| C717 | 2301-000289 | C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3,5 | |
| C718 | 2301-000247 | C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5m | |
| C719 | 2401-000480 | C-AL;10uF,20%,50V,GP,TP,5x11,5 | |
| C721 | 2301-000175 | C-FILM,PEF;15nF,5%,50V,TP,7.1x3.5x13mm,5m | |
| C722 | 2305-000288 | C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm, | |
| C723 | 2301-000175 | C-FILM,PEF;15nF,5%,50V,TP,7.1x3.5x13mm,5m | |
| C725 | 2305-000288 | C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm, | |
| C727 | 2305-000288 | C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm, | |
| C728 | 2401-001537 | C-AL;47uF,20%,25V,GP,TP,6.3x7mm,5mm | |
| C801 | 2306-000112 | C-FILM,MPPF;100nF,20%,250V,BK,-,15mm | |
| C804 | 2201-000315 | C-CERAMIC,DISC;2.2nF,+80-20%,250VAC,Y5U,TP,9x | |
| C805 | 2201-000315 | C-CERAMIC,DISC;2.2nF,+80-20%,250VAC,Y5U,TP,9x | |
| C806 | 2401-003030 | C-AL;220uF,20%,450V,GP,BK,30x35mm,1 | |
| C807 | 2303-000163 | C-FILM,PPF;2.2nF,5%,800V,TP,15x13x8.5,7.5 | |
| C808 | 2401-002284 | C-AL;33uF,20%,50V,GP,TP,5x11mm,5mm | |
| C809 | 2301-000224 | C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m | |
| C811 | 2201-000144 | C-CERAMIC,DISC;100pF,5%,50V,CH,TP,8x3,5 | |
| C812 | 2201-000954 | C-CERAMIC,DISC;4.7nF,20%,400V,Y5U,BK,7x16,10m | |
| C813 | 2201-000954 | C-CERAMIC,DISC;4.7nF,20%,400V,Y5U,BK,7x16,10m | |
| C814 | 2201-000991 | C-CERAMIC,DISC;560pF,10%,2KV,Y5P,TP,13x7,7.5 | |
| C815 | 2401-003058 | C-AL;100uF,20%,200V,WT,TP,16x25mm,7 | |
| C816 | 2401-000293 | C-AL;100uF,+30-10%,200V,HR,TP,16x25 | |
| C817 | 2201-000599 | C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4,5 | |
| C818 | 2401-000706 | C-AL;2200uF,20%,25V,GP,TP,16x25mm,7 | |

| Loc. No. | Code No. | Description ; Specification | Remark |
|---|---|---|---|
| C819 | 2201-000599 | C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4,5 | |
| C820 | 2401-003047 | C-AL;2200uF,20%,25V,WT,TP,16x25,7.5 | |
| C821 | 2301-000192 | C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm | |
| C823 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm | |
| C824 | 2305-000288 | C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm, | |
| C825 | 2305-000665 | C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm, | |
| C826 | 2401-001840 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm | |
| C827 | 2401-001840 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm | |
| C828 | 2401-000832 | C-AL;220uF,20%,25V,GP,TP,8x11.5,5mm | |
| C829 | 2401-000480 | C-AL;10uF,20%,50V,GP,TP,5x11,5 | |
| C830 | 2401-000603 | C-AL;1uF,20%,50V,GP,TP,5x11mm,5mm | |
| C831 | 2401-000440 | C-AL;10uF,20%,25V,GP,TP,5x11mm,5mm | |
| C832 | 2401-000287 | C-AL;100uF,20%,16V,WT,TP,6x11mm,5mm | |
| C833 | 2401-000287 | C-AL;100uF,20%,16V,WT,TP,6x11mm,5mm | |
| C901 | 2201-000234 | C-CERAMIC,DISC;150pF,5%,50V,CH,TP,9.5x3,5 | |
| C902 | 2301-000108 | C-FILM,PEF;1.5nF,5%,50V,TP,6.5x3.0x5.5mm, | |
| C903 | 2201-000119 | C-CERAMIC,DISC;100nF,+80-20%,50V,Y5V,TP,8x3.5 | |
| C904 | 2401-000480 | C-AL;10uF,20%,50V,GP,TP,5x11,5 | |
| C905 | 2305-000149 | C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5,5 | |
| C906 | 2305-000149 | C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5,5 | |
| C907 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C908 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C909 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C910 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,- | |
| C911 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,- | |
| C912 | 2401-001333 | C-AL;470nF,20%,50V,GP,TP,5x11,5 | |
| C913 | 2301-000264 | C-FILM,PEF;4.7nF,5%,50V,TP,6.5X5.5X3.0X5, | |
| C914 | 2305-000665 | C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm, | |
| C915 | 2401-001537 | C-AL;47uF,20%,25V,GP,TP,6.3x7mm,5mm | |
| C916 | 2201-000193 | C-CERAMIC,DISC;10pF,0.3pF,50V,CH,TP,5x3,5 | |
| C917 | 2201-000573 | C-CERAMIC,DISC;47pF,5%,50V,CH,TP,6.5x3.0,5 | |
| C918 | 2301-000192 | C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm | |
| C919 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C920 | 2401-000440 | C-AL;10uF,20%,25V,GP,TP,5x11mm,5mm | |
| C921 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,- | |
| C922 | 2401-001840 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm | |
| C923 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C924 | 2401-000440 | C-AL;10uF,20%,25V,GP,TP,5x11mm,5mm | |
| C925 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C926 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| C927 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P,TP,2.2x3. | |
| CN501 | AA39-20570A | LEAD CONNECTOR-ASSY;-,YBNH025-08,TIE,8PxB5/B3,500m | |
| CN602 | 3711-002644 | CONNECTOR-HEADER;BOX,5P,1R,2.5mm,STRAIGHT,SN | |
| CN701 | 3711-002647 | CONNECTOR-HEADER;BOX,8P,1R,2.5mm,STRAIGHT,SN | |
| CN802 | AA27-20003T | COIL-DEGAUSSING;-,22,16.7ohm,60T,2600mm,E | |
| CN904 | 3711-002644 | CONNECTOR-HEADER;BOX,5P,1R,2.5mm,STRAIGHT,SN | |
| CW701 | 2503-000158 | C-NETWORK;330pFx4,20%,50V,MCCB1H331MX4YT | |
| CW901 | 2503-000156 | C-NETWORK;100pFx4,20%,50V | |
| D205 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D217 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D401 | 0402-000493 | DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP | |
| D402 | 0402-000132 | DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP | |
| D403 | 0402-000132 | DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP | |
| D404 | 0402-001012 | DIODE-RECTIFIER;FMP-3FU,1500V,5A,TO-3PF | |
| D405 | 0402-000493 | DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP | |
| D406 | 0402-000546 | DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41 | |
| D407 | 0402-000216 | DIODE-RECTIFIER;ERC24-06,600V,1.0A,DO-204 | |
| D408 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D501 | 0402-000216 | DIODE-RECTIFIER;ERC24-06,600V,1.0A,DO-204 | |
| D502 | 0402-001105 | DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP | |
| D503 | 0402-001105 | DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP | |
| D504 | 0402-001105 | DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP | |
| D601 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D602 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D701 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D801 | 0402-001160 | DIODE-BRIDGE;D5SB60,600V,2.8A,SIP-4,ST | |
| D802 | 0402-000213 | DIODE-RECTIFIER;ERB12-06,600V,1.0A,DO-41 | |
| D803 | 0402-001105 | DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP | |
| D804 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D805 | 0402-000231 | DIODE-RECTIFIER;FMG-G26S,600V,4A,TO-220F,ST | |
| D806 | 0402-000493 | DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP | |
| D807 | 0402-000233 | DIODE-RECTIFIER;FML-G12S,200V,5A,- | |
| D809 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D810 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D901 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D902 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D903 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D904 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D905 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D906 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| D907 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,300mA,DO-35,TP | |
| DV801 | 1405-000152 | VARISTOR;560V,2500A,14x8.5mm,TP | |
| DV802 | 1405-000152 | VARISTOR;560V,2500A,14x8.5mm,TP | |
| DZ101 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ201 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ204 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ205 | 0403-000551 | DIODE-ZENER;MTZ3.9B,3.9V,3.89-4.16V,500mW, | |
| DZ301 | 0403-000660 | DIODE-ZENER;MTZ22A,22V,20.15-21.2V,500mW,D | |
| DZ302 | 0403-000700 | DIODE-ZENER;TZP33A,33V,31-35V,1W,DO-41,TP | |
| DZ303 | 0403-000538 | DIODE-ZENER;MTZ16C,15.69-16.51V,500mW,DO-3 | |
| DZ304 | 0403-001039 | DIODE-ZENER;MA2560,56V,52-60V,1W,DO-41,TP | |
| DZ401 | 0403-000700 | DIODE-ZENER;TZP33A,33V,31-35V,1W,DO-41,TP | |
| DZ402 | 0403-000295 | DIODE-ZENER;MTZ5.1B,5.1V,4.94-5.20V,500mW, | |
| DZ420 | 0403-000294 | DIODE-ZENER;MTZ4.7B,4.55-4.80V,500mW,DO-34 | |
| DZ501 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ502 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ503 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ504 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ601 | 0403-000555 | DIODE-ZENER;MTZ30D,30V,29.02-30.51V,500mW, | |
| DZ602 | 0403-000555 | DIODE-ZENER;MTZ30D,30V,29.02-30.51V,500mW, | |
| DZ603 | 0403-000555 | DIODE-ZENER;MTZ30D,30V,29.02-30.51V,500mW, | |
| DZ604 | 0403-000555 | DIODE-ZENER;MTZ30D,30V,29.02-30.51V,500mW, | |
| DZ605 | 0403-000296 | DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW, | |
| DZ701 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ702 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ703 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ704 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ705 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ803 | 0403-000296 | DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW, | |
| DZ805 | 1203-001217 | IC-POSI.ADJUST REG.;431,TO-92,3P,4.58MIL,PLASTIC,2 | |
| DZ807 | 0403-000296 | DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW, | |
| DZ901 | 1203-000451 | IC-VOLTAGE REGULATOR;33,TO-92,3P,-,PLASTIC,31/35V,2 | |
| DZ902 | 0403-000295 | DIODE-ZENER;MTZ5.1B,5.1V,4.94-5.20V,500mW, | |
| DZ903 | 0403-000559 | DIODE-ZENER;MTZ6.2C,6.2V,6.12-6.44V,500mW, | |
| DZ904 | 0403-000563 | DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW, | |
| DZ905 | 0403-000296 | DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW, | |
| ⚠ F801 | 3601-000281 | FUSE-FERRULE;250V,4A,TIME LAG,GLASS,5x20mm | |
| F801A | 3602-000114 | FUSE-HOLDER;-,-,30mohm | |
| F801B | 3602-000114 | FUSE-HOLDER;-,-,30mohm | |
| ⚠ F802 | 3601-001086 | FUSE-FERRULE;125V,5A,QUICK-ACTING,CERAMIC,2 | |
| HC101 | AA13-20004A | IC-HYBRID;-,PAP102T,SIP,6P,PRE-AMP,TP | |
| ⚠ IC201 | 1204-001145 | IC-DEMODULATOR;TDA8844,DIP,56P,-,PLASTIC,8.8V | |
| ⚠ IC301 | 1204-000426 | IC-VERTICAL PROCESSO;TDA8350Q/N4,SIP,13P,-,PLASTIC, | |
| ⚠ IC401 | 1203-000243 | IC-POSI.FIXED REG.;7812A,TO-220,3P,-,PLASTIC,11.5 | |
| ⚠ IC501 | 1201-001159 | IC-VIDEO AMP;6107,ZIP,9P,300MIL,SINGLE,-,PL | |
| ⚠ IC601 | 1201-001064 | IC-POWER AMP;7297,ZIP,15P,-,DUAL,32dB,PLAST | |
| ⚠ IC701 | 1204-000473 | IC-AUDIO PROCESSOR;TDA9859,DIP,32P,-,PLASTIC,-,-, | |
| ⚠ IC801 | 1203-001313 | IC-PWM CONTROLLER;3S0680,TO-3P,5,150MIL,PLASTIC, | |
| ⚠ IC802 | 0604-001038 | PHOTO-COUPLER;TR,130-260%,200mW,DIP-4,ST | |
| ⚠ IC803 | 1203-001006 | IC-VOLTAGE REGULATOR;78R05,TO-220F,4P,-,PLASTIC,4.8 | |
| ⚠ IC804 | 1203-000644 | IC-POSI.FIXED REG.;7630,SIP,10P,-,PLASTIC,5.1/8V, | |
| ⚠ IC901 | AA13-30019R | IC-MCU;-,Z8933212PSC-R3719,16BIT,SDIP | |
| ⚠ IC902 | 1103-000156 | IC-EEPROM;24C04,512X8BIT,DIP,8P,300MIL,1 | |
| J415 | 2001-001037 | R-CARBON(S);0.39ohm,5%,1/2W,AA,TP,2.4x6.4m | |
| JA701 | 3722-000183 | JACK-SCART;21P,4mm,SN,BLK,NO | |
| L101 | 2701-001033 | INDUCTOR-AXIAL;1uH,10%,5x14mm | |
| L102 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| L103 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| L204 | 2701-000197 | INDUCTOR-AXIAL;5.6uH,10%,2.5x3.4mm | |
| L205 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| L206 | 2701-000142 | INDUCTOR-AXIAL;1uH,10%,2.5x3.4mm | |
| L207 | 2701-000142 | INDUCTOR-AXIAL;1uH,10%,2.5x3.4mm | |
| L208 | 2701-000142 | INDUCTOR-AXIAL;1uH,10%,2.5x3.4mm | |
| L301 | 2701-000116 | INDUCTOR-AXIAL;10uH,10%,4.2x9.8mm | |
| L302 | 2701-000116 | INDUCTOR-AXIAL;10uH,10%,4.2x9.8mm | |
| L303 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| L304 | 2701-000178 | INDUCTOR-AXIAL;33uH,10%,2.8x7mm | |
| L401 | AA27-40003L | COIL-HORIZ,WIDTH;-,1.0mH,DR14x20,2UEW0.45,ST | |
| L402 | AA27-30003L | COIL-LINERITY;-,73uH,DR12x15,0.55mm,-,BK,15% | |
| L601 | 3301-000287 | CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,2400G | |
| L603 | 3301-000287 | CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,2400G | |
| L701 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| L702 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| L703 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |

| Loc. No. | Code No. | Description ; Specification | Remark |
|---|---|---|---|
| L704 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| L709 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| L801 | AA29-30001Q | FILTER-LINE;-,20mH,1.26A,-,BSF3050 | |
| L803 | 3301-000287 | CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,2400G | |
| L804 | 2901-000297 | FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,- | |
| L805 | AA27-10002Y | COIL-CHOKE;-,100uH,K,10,700mA,T,100UH-K(S | |
| L806 | 3301-000287 | CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,2400G | |
| L807 | 3301-000287 | CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,2400G | |
| L808 | 3301-000287 | CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,2400G | |
| L901 | 2701-000189 | INDUCTOR-AXIAL;470nH,10%,2.5x3.4mm | |
| L903 | 2701-000197 | INDUCTOR-AXIAL;5.6uH,10%,2.5x3.4mm | |
| L904 | 2701-000211 | INDUCTOR-AXIAL;68uH,10%,2.5x3.4mm | |
| L905 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| L906 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| LD901 | AA96-30001B | ASSY-LED,GUIDE;-,AA61-50055A,DL-G5RGA,- | |
| Q204 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120- | |
| Q207 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120- | |
| Q210 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120- | |
| Q401 | 0502-000242 | TR-POWER;KSA614,PNP,25W,TO-220,TP,40-24 | |
| Q402 | 0501-000369 | TR-SMALL SIGNAL;KSC2331-Y,NPN,1W,TO-92L,-,120- | |
| Q403 | 0502-000450 | TR-POWER;2SD1887YD,NPN,1500V,800V,10A,7 | |
| Q704 | 0501-000283 | TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120- | |
| Q901 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120- | |
| Q902 | 0504-000123 | TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP | |
| Q903 | 0504-000123 | TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP | |
| Q904 | 0504-000123 | TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP | |
| Q905 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120- | |
| Q906 | 0501-000283 | TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120- | |
| Q907 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120- | |
| Q908 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120- | |
| R101 | 2003-001035 | R-METAL OXIDE(S);27ohm,0.05,2W,AF,TP,3.9x10mm | |
| R209 | 2001-000010 | R-CARBON;68Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R212 | 2001-000005 | R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R214 | 2001-000793 | R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R215 | 2001-000780 | R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R218 | 2001-000490 | R-CARBON;200ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R219 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R220 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R221 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R222 | 2001-000440 | R-CARBON;1ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R223 | 2001-000617 | R-CARBON;3.9Mohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R224 | 2001-000832 | R-CARBON;510ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R225 | 2001-000857 | R-CARBON;560ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R226 | 2001-000793 | R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R227 | 2001-000739 | R-CARBON;4.7Mohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R230 | 2001-000331 | R-CARBON;12Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R233 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R234 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R235 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R239 | 2001-000009 | R-CARBON;20Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R241 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R242 | 2001-000003 | R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R244 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R246 | 2001-000273 | R-CARBON;100Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R247 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R248 | 2001-000793 | R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R249 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R250 | 2001-000302 | R-CARBON;10ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R251 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R252 | 2001-000977 | R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R253 | 2001-000591 | R-CARBON;3.3Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R255 | 2001-000008 | R-CARBON;15Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R256 | 2004-001234 | R-METAL;75Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R257 | 2001-000660 | R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R258 | 2004-001914 | R-METAL;39Kohm,2%,1/8W,AA,TP,1.8x3.5mm | |
| R259 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R260 | 2001-000660 | R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R261 | 2001-000331 | R-CARBON;12Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R262 | 2004-001995 | R-METAL;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R270 | 2001-000890 | R-CARBON;6.8Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R301 | 2004-001970 | R-METAL(S);1.8Kohm,1%,1/2W,AA,TP,6.5x2.5m | |
| R302 | 2004-004087 | R-METAL(S);1.5ohm,1%,1/2W,AA,TP,2.5x6.5mm | |
| R303 | 2004-004087 | R-METAL(S);1.5ohm,1%,1/2W,AA,TP,2.5x6.5mm | |
| R304 | 2001-001131 | R-CARBON(S);33Kohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| R305 | 2003-001018 | R-METAL OXIDE(S);220ohm,5%,2W,AF,TP,3.9x10mm | |
| R306 | 2003-001018 | R-METAL OXIDE(S);220ohm,5%,2W,AF,TP,3.9x10mm | |
| R307 | 2001-000449 | R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m | |

| Loc. No. | Code No. | Description ; Specification | Remark |
|---|---|---|---|
| R401 | 2004-004092 | R-METAL;52.6Kohm,1%,1/2W,AA,TP,2.5x6.5 | |
| R402 | 2001-000028 | R-CARBON(S);100ohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| R403 | 2001-001155 | R-CARBON(S);5.6Kohm,5%,1/2W,AA,TP,2.4x6.4m | |
| R405 | 2001-001138 | R-CARBON(S);390ohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| R406 | 2003-002008 | R-METAL OXIDE(S);18Kohm,5%,2W,AF,TP,3.9x10mm | |
| R407 | 2003-000993 | R-METAL OXIDE(S);3.9Kohm,5%,1W,AF,TP,2.5x6.5mm | |
| R408 | 2008-000179 | R-FUSIBLE(S);10ohm,5%,1/2W,AA,TP,2.5x6.5mm | |
| R409 | 2008-000264 | R-FUSIBLE(S);1ohm,5%,1W,AF,TP,3.9x10mm | |
| R410 | 2001-001114 | R-CARBON(S);270ohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| R411 | 2001-001066 | R-CARBON(S);110ohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| R413 | 2008-000251 | R-FUSIBLE(S);0.27ohm,10%,2W,AF,TP,3.9x10mm | |
| R414 | 2008-001033 | R-FUSIBLE(S);10ohm,5%,2W,AF,TP,3.9x10mm | |
| R415 | 2008-000221 | R-FUSIBLE;0.47ohm,10%,1/2W,AA,TP,4.7x11m | |
| R416 | 2001-000633 | R-CARBON;30Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R417 | 2004-001408 | R-METAL(S);91Kohm,1%,1/2W,AA,TP,2.4x6.4mm | |
| R418 | 2004-001408 | R-METAL(S);91Kohm,1%,1/2W,AA,TP,2.4x6.4mm | |
| R419 | 2004-001390 | R-METAL(S);1Kohm,2%,1/2W,AA,TP,2.4x6.4mm | |
| R421 | 2001-000022 | R-CARBON(S);33ohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| R501H | 2002-001008 | R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm | |
| R502H | 2002-001008 | R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm | |
| R503 | 2002-001008 | R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm | |
| R504 | 2001-001062 | R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| R505 | 2008-001015 | R-FUSIBLE(S);1.5ohm,5%,2W,AF,TP,3.9x10mm | |
| R507 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R508 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R509 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R510 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R511 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R512 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R526 | 2008-001047 | R-FUSIBLE(S);68ohm,5%,2W,AF,TP,3.9x10mm | |
| R527 | 2003-000994 | R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm | |
| R601 | 2008-001002 | R-FUSIBLE(S);0.18ohm,5%,2W,AA,TP,3.9x10mm | |
| R602 | 2008-001002 | R-FUSIBLE(S);0.18ohm,5%,2W,AA,TP,3.9x10mm | |
| R603 | 2001-000232 | R-CARBON;1.3Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R604 | 2001-000947 | R-CARBON;7.5Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R605 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R606 | 2001-000232 | R-CARBON;1.3Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R607 | 2001-000947 | R-CARBON;7.5Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R701 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R702 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R703 | 2001-000490 | R-CARBON;200ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R704 | 2001-000490 | R-CARBON;200ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R709 | 2001-000969 | R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R710 | 2001-000003 | R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R711 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R712 | 2001-000539 | R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R713 | 2001-000969 | R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R714 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R715 | 2001-000969 | R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R717 | 2001-000539 | R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R718 | 2001-000969 | R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R719 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R726 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R727 | 2001-000290 | R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R728 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R729 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R730 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R731 | 2001-000290 | R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R733 | 2001-000969 | R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R734 | 2001-000969 | R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R735 | 2001-000969 | R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R736 | 2001-000660 | R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R740 | 2001-000780 | R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R741 | 2001-000780 | R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R802 | 2003-000994 | R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm | |
| R803 | 2003-000994 | R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm | |
| R804 | 2001-001150 | R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m | |
| R805 | 2001-001150 | R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m | |
| R806 | 2004-001967 | R-METAL(S);68Kohm,1%,1/2W,AA,TP,6.5x2.5mm | |
| R807 | 2004-001373 | R-METAL(S);100Kohm,1%,1/2W,AA,TP,2.4x6.4m | |
| R808 | 2002-001011 | R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm | |
| R809 | 2002-001013 | R-COMPOSITION;4.7Mohm,10%,1/2W,AA,TP,3.7x9mm | |
| R810 | 2003-001090 | R-METAL OXIDE(S);10Kohm,5%,2W,AF,TP,4x12mm | |
| R811 | 2003-000784 | R-METAL OXIDE(S);7.5Kohm,5%,2W,AF,TP,4x12mm | |
| R812 | 2006-000321 | R-CEMENT;5.6ohm,5%,7W,CB,BK,9.5x13.5x39 | |
| R813 | 2001-001050 | R-CARBON(S);1.5Kohm,5%,1/2W,AA,TP,2.4x6.4m | |
| R814 | 2004-001390 | R-METAL(S);1Kohm,2%,1/2W,AA,TP,2.4x6.4mm | |

| Loc. No. | Code No. | Description ; Specification | Remark |
|---|---|---|---|
| R815 | 2004-001889 | R-METAL(S);127Kohm,1%,1/2W,AA,TP,2.5x6.5m | |
| R816 | 2004-001983 | R-METAL;2.49Kohm,1%,1/2W,AA,TP,2.4x6.4 | |
| R817 | 2003-000994 | R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm | |
| R818 | 2006-000321 | R-CEMENT;5.6ohm,5%,7W,CB,BK,9.5x13.5x39 | |
| R819 | 2001-000290 | R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R820 | 2008-000266 | R-FUSIBLE(S);1ohm,5%,2W,AF,TP,3.9x10mm | |
| R821 | 2008-000266 | R-FUSIBLE(S);1ohm,5%,2W,AF,TP,3.9x10mm | |
| R822 | 2001-000290 | R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R823 | 2003-000005 | R-METAL OXIDE(S);1ohm,5%,2W,AA,TP,4x12mm | |
| R824 | 2001-001125 | R-CARBON(S);300Kohm,5%,1/2W,AA,TP,2.4x6.4m | |
| R901 | 2001-000290 | R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R902 | 2001-000290 | R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R903 | 2001-000066 | R-CARBON(S);10Kohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| R904 | 2004-000218 | R-METAL;10Kohm,1%,1/8W,AA,TP,1.8x3.2mm | |
| R905 | 2004-000218 | R-METAL;10Kohm,1%,1/8W,AA,TP,1.8x3.2mm | |
| R906 | 2004-000253 | R-METAL;11Kohm,1%,1/8W,AA,TP,1.8x3.2mm | |
| R908 | 2001-000241 | R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R909 | 2001-000472 | R-CARBON;2.7Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R910 | 2004-001193 | R-METAL;680ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R911 | 2001-000214 | R-CARBON;1.1Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R912 | 2001-000449 | R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R913 | 2001-000241 | R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R914 | 2001-000472 | R-CARBON;2.7Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R916 | 2001-000290 | R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R917 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R918 | 2001-000734 | R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R919 | 2001-000290 | R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R920 | 2001-000273 | R-CARBON;100Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R921 | 2001-000290 | R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R922 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R923 | 2001-000290 | R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R924 | 2001-000734 | R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R925 | 2004-001193 | R-METAL;680ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R926 | 2004-001193 | R-METAL;680ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R927 | 2001-000490 | R-CARBON;200ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R928 | 2001-000302 | R-CARBON;10ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R929 | 2001-000302 | R-CARBON;10ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R930 | 2001-000003 | R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R931 | 2001-001114 | R-CARBON(S);270ohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| R932 | 2001-000449 | R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R933 | 2001-000449 | R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R934 | 2001-000449 | R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R935 | 2001-000449 | R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R936 | 2001-000449 | R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R937 | 2001-001062 | R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| R938 | 2001-000832 | R-CARBON;510ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R939 | 2001-000786 | R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R940 | 2001-001062 | R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| R942 | 2001-000734 | R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R943 | 2001-000793 | R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R944 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R945 | 2001-000734 | R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R946 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R948 | 2001-000449 | R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R949 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R951 | 2001-000449 | R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| R952 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R953 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R954 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R955 | 2001-000429 | R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R956 | 2001-000734 | R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| RM901 | AA59-60001U | MODULE-REMOCON;-,ORC-50VF/SR-12V,38KHz,940nm, | |
| RP801 | 1404-000187 | THERMISTOR-NTC;4.7ohm,15%,2800K,27.2mW/C,TP | |
| RP803 | 1404-000180 | THERMISTOR-PTC;14ohm,20%,-,290V,25A,-,ST | |
| SF102 | 2904-001063 | FILTER-SAW AV;38.9MHz,SIP5K,TP,17dB,PAL-B/G, | |
| SW801 | 3403-001020 | SWITCH-PUSH;250V,5A,DPST,OFF-ON-OFF | |
| SW901 | 3404-000244 | SWITCH-TACT;15V,20mA,90-170gf,7.5x7mm,SPST | |
| SW902 | 3404-000244 | SWITCH-TACT;15V,20mA,90-170gf,7.5x7mm,SPST | |
| SW903 | 3404-000244 | SWITCH-TACT;15V,20mA,90-170gf,7.5x7mm,SPST | |
| SW904 | 3404-000244 | SWITCH-TACT;15V,20mA,90-170gf,7.5x7mm,SPST | |
| SW905 | 3404-000244 | SWITCH-TACT;15V,20mA,90-170gf,7.5x7mm,SPST | |
| ⚠ T201 | AA26-10006E | TRANS-IF;-,7MG,VIF,-,7mm,5pF,79.1MHz,ST | |
| ⚠ T401 | AA26-50001B | HORIZ.DRIVE;-,7.1mH,102uH,10-20uH,YL081,ST | |
| ⚠ T444 | AA26-30004Y | TRANS-FLYBACK;-,FSV-21B005(S),21,125V | |
| ⚠ T801 | AA26-20007F | TRANS-SWITCHING;-,90VAC~260VAC,130/15/15,CE,EE | |
| ⚠ TU101 | AA40-10003K | TUNER-V/S;TELE1-002,PAL-B/G,-,105CH BWT | |
| ⚠ TU101 | AA40-10003T | TUNER-V/S;TELE4-016,PAL-B/G,BK,181CH VWT | |

| Loc. No. | Code No. | Description ; Specification | Remark |
|---|---|---|---|
| ⚠ V999 | 3704-000110 | SOCKET-CRT;14P,29.1,25.5,SN,ISHS09S/BK | |
| X202 | 2801-000274 | CRYSTAL-UNIT;4.433619MHz,30ppm,28-AAM,20pF, | |
| X203 | 2801-000226 | CRYSTAL-UNIT;3.579545MHz,20ppm,28-AAM,15pF, | |
| X901 | 2801-003224 | CRYSTAL-UNIT;32.768KHz,20ppm,28-AAY,12.5pF, | |
| Z208 | 2903-001040 | FILTER-CERAMIC;TR,5.5/6.0/6.5MHz,-,1dB,-,TP,T | |
| Z210 | 2903-001019 | FILTER-CERAMIC;TR,5.5/5.742MHz,-,-,-,TP,- | |

## ASSY-PCB,A/V

| | | | |
|---|---|---|---|
| * | AA95-40004M | ASSY-PCB,A/V;-,CS5377/MVTX,SCT12A,-,-,- | |
| CA02 | 2202-000121 | C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,- | |
| CA03 | 2202-000121 | C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,- | |
| CA04 | 2202-000720 | C-CERAMIC,MLC-AXIAL;8.2nF,20%,16V,Y5R,TP,3.5x19,- | |
| CA05 | 2202-000720 | C-CERAMIC,MLC-AXIAL;8.2nF,20%,16V,Y5R,TP,3.5x19,- | |
| CA06 | 2401-001840 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm | |
| CA07 | 2401-001840 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm | |
| CN01A | AA39-20068E | LEAD-CONNECTOR,ASSY;-,YBNH025-08,67096-008,8P,500, | |
| CN05A | AA39-20069A | LEAD-CONNECTOR,ASSY;-,YBNH025-05,67096-005,5P,500, | |
| CN06A | AA39-20499B | LEAD CONNECTOR-ASSY;-,YBNH025-04,SMP025-04,4P,200, | |
| JE01 | 3722-000143 | JACK-PHONE;1P(VER),3.4mm,AG,BLK,NO | |
| JR01 | 3722-001031 | JACK-RCA;3P,3.6mm,#18,AU | |
| LA02 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| LA03 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| LA04 | 2701-000180 | INDUCTOR-AXIAL;33uH,5%,2.5x3.4mm | |
| LA05 | 2701-000180 | INDUCTOR-AXIAL;33uH,5%,2.5x3.4mm | |
| RA01 | 2001-000028 | R-CARBON(S);100ohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| RA02 | 2001-000028 | R-CARBON(S);100ohm,5%,1/2W,AA,TP,2.4x6.4mm | |

## ASSY-SOUND

| | | | |
|---|---|---|---|
| * | AA95-40011H | ASSY-SOUND;-,CK,SCT57B,A2,-,- | |
| CA101 | 2401-000254 | C-AL;100uF,20%,10V,LL,TP,8x11.5,5mm | |
| CA102 | 2305-000665 | C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm, | |
| CA103 | 2401-002235 | C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm | |
| CA104 | 2401-002042 | C-AL;220uF,20%,10V,GP,TP,6.3x11,5mm | |
| CA105 | 2301-000148 | C-FILM,PEF;10nF,5%,100V,TP,7x3.2x7mm,5mm | |
| CA106 | 2301-000235 | C-FILM,PEF;3.9nF,5%,50V,TP,6.5x3.0x5.5mm, | |
| CA107 | 2301-000530 | C-FILM,PEF;100nF,5%,100V,TP,11.5x12.5x6.5 | |
| CA108 | 2301-000201 | C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,5 | |
| CA109 | 2401-000660 | C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm | |
| CA110 | 2401-000660 | C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm | |
| CA111 | 2401-000416 | C-AL;10uF,20%,16V,GP,TP,5x11,5mm | |
| CA112 | 2401-000416 | C-AL;10uF,20%,16V,GP,TP,5x11,5mm | |
| CA113 | 2301-000380 | C-FILM,PEF;10nF,5%,50V,TP,6.5x3mm,5mm | |
| CA114 | 2301-000380 | C-FILM,PEF;10nF,5%,50V,TP,6.5x3mm,5mm | |
| CA115 | 2401-000667 | C-AL;2.2uF,20%,50V,WT,TP,5*11,5mm | |
| CA116 | 2401-000667 | C-AL;2.2uF,20%,50V,WT,TP,5*11,5mm | |
| CA117 | 2401-000667 | C-AL;2.2uF,20%,50V,WT,TP,5*11,5mm | |
| CA118 | 2301-000380 | C-FILM,PEF;10nF,5%,50V,TP,6.5x3mm,5mm | |
| CA119 | 2401-000440 | C-AL;10uF,20%,25V,GP,TP,5x11mm,5mm | |
| CNA01 | 3711-002704 | CONNECTOR-HEADER;NOWALL,6P,1R,2.5mm,ANGLE,SN | |
| CNA02 | 3711-002704 | CONNECTOR-HEADER;NOWALL,6P,1R,2.5mm,ANGLE,SN | |
| ICA01 | 1204-000515 | IC-SOUND PROCESSOR;TDA9840/V2,DIP,20P,324MIL,PLAS | |
| ICA02 | 1204-001294 | IC-DEMODULATOR;TDA9820,DIP,16P,300MIL,PLASTIC | |
| LA101 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| LA102 | 2702-000131 | INDUCTOR-RADIAL;2.2mH,5%,6.2x7.4mm | |
| RA101 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| RA102 | 2001-000734 | R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| RA103 | 2001-000734 | R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| RA104 | 2001-000591 | R-CARBON;3.3Kohm,5%,1/8W,AA,TP,1.8x3.2m | |
| RA105 | 2001-000281 | R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| RA108 | 2001-000563 | R-CARBON;27Kohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| XA101 | 2801-000125 | CRYSTAL-UNIT;10MHz,20ppm,28-AAM,32pF,30ohm, | |
| ZA101 | 2903-000185 | FILTER-CERAMIC;BP,5.5MHz,+-75KHz,6dB,-,TP,- | |
| ZA102 | 2903-000185 | FILTER-CERAMIC;BP,5.5MHz,+-75KHz,6dB,-,TP,- | |
| ZA106 | 2903-000307 | FILTER-CERAMIC;BP,6.25MHz,50KHz,6.0dB,-,TP,- | |
| ZA107 | 2903-000307 | FILTER-CERAMIC;BP,6.25MHz,50KHz,6.0dB,-,TP,- | |

## ASSY-PCB,PIP TTX

| | | | |
|---|---|---|---|
| * | AA95-90030J | ASSY-PCB,PIP TTX;-,22-Q,SCT57B,SAA5261,CIS,- | |
| CNP01 | 3711-002704 | CONNECTOR-HEADER;NOWALL,6P,1R,2.5mm,ANGLE,SN | |

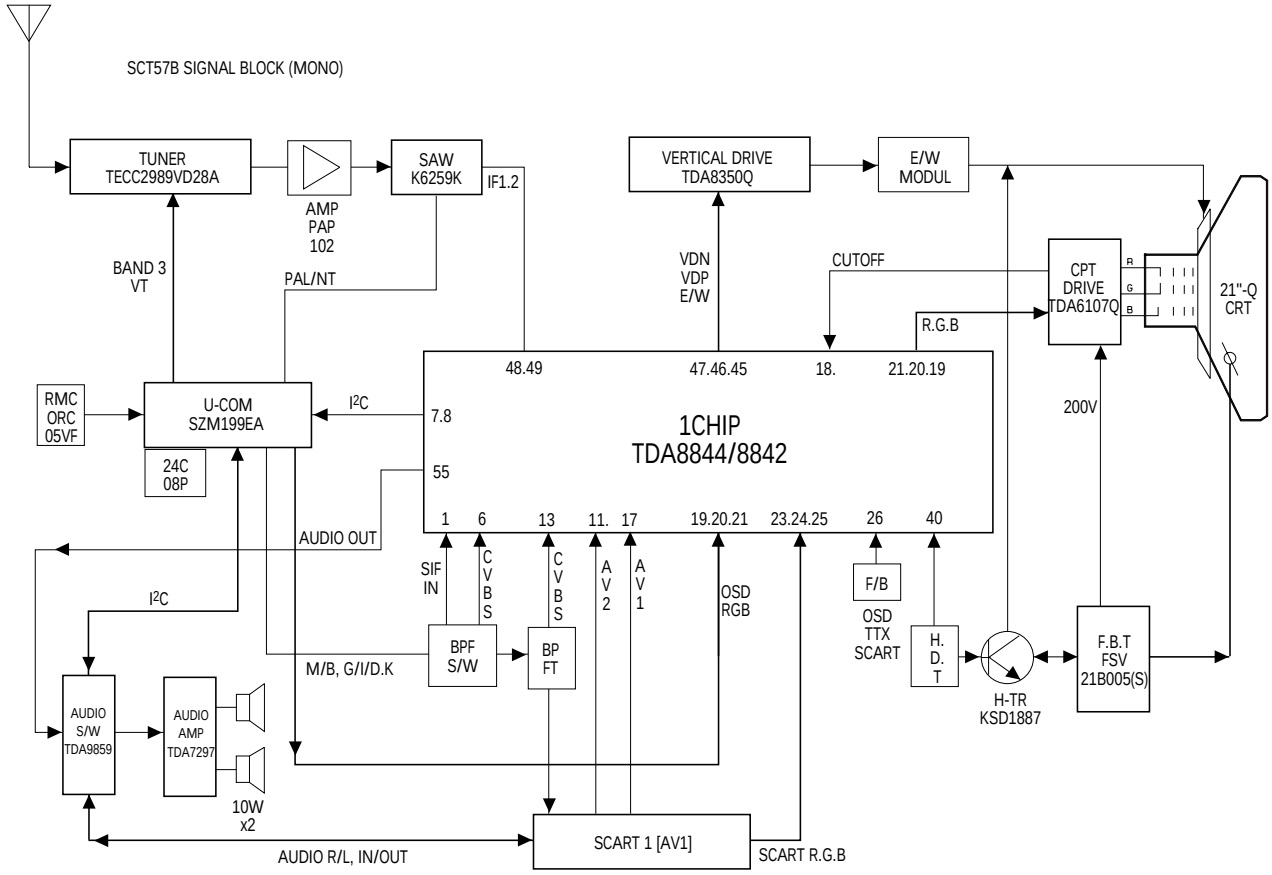
| Loc. No. | Code No. | Description ; Specification | Remark |
|---|---|---|---|
| CNT01 | 3711-002702 | CONNECTOR-HEADER;NOWALL,4P,1R,2.5mm,ANGLE,SN | |
| CNT02 | 3711-002703 | CONNECTOR-HEADER;NOWALL,5P,1R,2.5mm,ANGLE,SN | |
| CNT03 | 3711-002705 | CONNECTOR-HEADER;NOWALL,7P,1R,2.5mm,ANGLE,SN | |
| CP01 | 2401-000404 | C-AL;10uF,20%,16V,BP,TP,6x11mm,5mm | |
| CP02 | 2401-000404 | C-AL;10uF,20%,16V,BP,TP,6x11mm,5mm | |
| CP03 | 2401-000404 | C-AL;10uF,20%,16V,BP,TP,6x11mm,5mm | |
| CP04 | 2203-000561 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,2012, | |
| CP05 | 2203-000561 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,2012, | |
| CP06 | 2203-000561 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,2012, | |
| CP07 | 2203-000561 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,2012, | |
| CP08 | 2203-000561 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,2012, | |
| CP09 | 2203-000561 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,2012, | |
| CP10 | 2401-001840 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm | |
| CP11 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP12 | 2203-000323 | C-CERAMIC,CHIP;12nF,10%,50V,X7R,TP,2012,- | |
| CP13 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP14 | 2401-001515 | C-AL;47uF,20%,16V,WT,TP,6x11mm,5mm | |
| CP15 | 2203-002232 | C-CERAMIC,CHIP;3.3nF,20%,50V,X7R,TP,2012,- | |
| CP16 | 2203-000751 | C-CERAMIC,CHIP;330nF,+80-20%,16V,Y5V,TP,2012, | |
| CP17 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP18 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP19 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP20 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP21 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP22 | 2203-001105 | C-CERAMIC,CHIP;6.8nF,10%,50V,X7R,TP,2012,- | |
| CP23 | 2203-000609 | C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012,- | |
| CP24 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP25 | 2203-000260 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,- | |
| CP26 | 2401-000603 | C-AL;1uF,20%,50V,GP,TP,5x11mm,5mm | |
| CP27 | 2203-000429 | C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,- | |
| CP28 | 2203-000429 | C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,- | |
| CP29 | 2401-001840 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm | |
| CP30 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP31 | 2401-000242 | C-AL;100uF,20%,10V,GP,TP,6x11,5mm | |
| CP32 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP33 | 2203-000260 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,- | |
| CP34 | 2401-001840 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm | |
| CP35 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP36 | 2203-000609 | C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012,- | |
| CP37 | 2401-000603 | C-AL;1uF,20%,50V,GP,TP,5x11mm,5mm | |
| CP38 | 2203-000260 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,- | |
| CP39 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP40 | 2203-000561 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,2012, | |
| CP41 | 2203-000561 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,2012, | |
| CP42 | 2401-000587 | C-AL;1uF,20%,50V,BP,TP,5x11,5mm | |
| CP43 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP44 | 2203-000561 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,2012, | |
| CP45 | 2201-000273 | C-CERAMIC,DISC;18pF,5%,50V,CH,TP,5x3mm,5 | |
| CP46 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CP47 | 2203-000561 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,2012, | |
| CT01 | 2401-000242 | C-AL;100uF,20%,10V,GP,TP,6x11,5mm | |
| CT02 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CT04 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CT05 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CT06 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CT07 | 2401-000440 | C-AL;10uF,20%,25V,GP,TP,5x11mm,5mm | |
| CT08 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CT09 | 2203-000295 | C-CERAMIC,CHIP;10pF,5%,50V,NPO,TP,2012,- | |
| CT10 | 2203-000295 | C-CERAMIC,CHIP;10pF,5%,50V,NPO,TP,2012,- | |
| CT11 | 2203-000192 | C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,2012, | |
| CT12 | 2401-000660 | C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm | |
| DP01 | 0401-000133 | DIODE-SWITCHING;RLS4148,100V,200mA,500mW,4nS,S | |
| DT01 | 0401-000133 | DIODE-SWITCHING;RLS4148,100V,200mA,500mW,4nS,S | |
| DZP02 | 0403-000662 | DIODE-ZENER;MTZ3.0B,3.0V,3.01-3.22V,500mW, | |
| ICP01 | 1001-000223 | IC-VIDEO SWITCH;TEA5114A,-,DIP,16P,334MIL,SING | |
| ICP02 | 1204-000530 | IC-PAL/NTSC DECODER;TDA9160A,DIP,32P,400MIL,PLASTI | |
| ICP03 | 1204-001175 | IC-PICTURE PROCESS;SDA9288X A141,SOP,32P,-,PLASTI | |
| ICT01 | 1204-001401 | IC-PAL DECODER;SAA5261PS/102,DIP,52P,600MIL,P | |
| ICT02 | 1103-000128 | IC-EEPROM;24C02,256*8BIT,DIP,8P,300MIL,1 | |
| ICT03 | 1203-000641 | IC-RESET;7442,TO-92,3P,-,PLASTIC,-0.3/7 | |
| JP01 | 2007-000029 | R-CHIP;0ohm,5%,1/10W,DA,TP,2012 | |
| JP02 | 2007-000029 | R-CHIP;0ohm,5%,1/10W,DA,TP,2012 | |
| JT01 | 2007-000029 | R-CHIP;0ohm,5%,1/10W,DA,TP,2012 | |
| JT02 | 2007-000029 | R-CHIP;0ohm,5%,1/10W,DA,TP,2012 | |
| LP01 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| LP05 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| LP09 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| LP10 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| LP11 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| LT01 | 2701-000114 | INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm | |
| QP01 | 0501-000280 | TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23,TP,70 | |
| QP02 | 0501-000280 | TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23,TP,70 | |
| QP03 | 0501-000280 | TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23,TP,70 | |
| QP04 | 0501-000280 | TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23,TP,70 | |
| QP05 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-23,TP, | |
| QP06 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-23,TP, | |
| QP07 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-23,TP, | |
| QP08 | 0501-000280 | TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23,TP,70 | |
| QP09 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-23,TP, | |
| QP10 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-23,TP, | |
| QT01 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-23,TP, | |
| QT02 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-23,TP, | |
| QT03 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-23,TP, | |
| QT04 | 0501-000342 | TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-23,TP, | |
| RP01 | 2007-000300 | R-CHIP;10Kohm,5%,1/10W,DA,TP,2012 | |
| RP02 | 2007-001166 | R-CHIP;75ohm,5%,1/10W,DA,TP,2012 | |
| RP03 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RP04 | 2007-000300 | R-CHIP;10Kohm,5%,1/10W,DA,TP,2012 | |
| RP05 | 2007-001166 | R-CHIP;75ohm,5%,1/10W,DA,TP,2012 | |
| RP06 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RP07 | 2007-000300 | R-CHIP;10Kohm,5%,1/10W,DA,TP,2012 | |
| RP08 | 2007-001166 | R-CHIP;75ohm,5%,1/10W,DA,TP,2012 | |
| RP09 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RP10 | 2007-000766 | R-CHIP;330ohm,5%,1/10W,DA,TP,2012 | |
| RP11 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RP12 | 2007-000572 | R-CHIP;220ohm,5%,1/10W,DA,TP,2012 | |
| RP13 | 2007-000572 | R-CHIP;220ohm,5%,1/10W,DA,TP,2012 | |
| RP14 | 2007-000572 | R-CHIP;220ohm,5%,1/10W,DA,TP,2012 | |
| RP15 | 2007-000572 | R-CHIP;220ohm,5%,1/10W,DA,TP,2012 | |
| RP16 | 2007-000572 | R-CHIP;220ohm,5%,1/10W,DA,TP,2012 | |
| RP17 | 2007-000572 | R-CHIP;220ohm,5%,1/10W,DA,TP,2012 | |
| RP18 | 2007-000493 | R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012 | |
| RP19 | 2007-000493 | R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012 | |
| RP20 | 2007-000290 | R-CHIP;100ohm,5%,1/10W,DA,TP,2012 | |
| RP21 | 2007-000290 | R-CHIP;100ohm,5%,1/10W,DA,TP,2012 | |
| RP22 | 2007-000300 | R-CHIP;10Kohm,5%,1/10W,DA,TP,2012 | |
| RP23 | 2007-000830 | R-CHIP;39Kohm,5%,1/10W,DA,TP,2012 | |
| RP24 | 2007-000493 | R-CHIP;2.2Kohm,5%,1/10W,DA,TP,2012 | |
| RP25 | 2007-000409 | R-CHIP;15Kohm,5%,1/10W,DA,TP,2012 | |
| RP26 | 2007-000290 | R-CHIP;100ohm,5%,1/10W,DA,TP,2012 | |
| RP28 | 2007-000001 | R-CHIP;68Kohm,5%,1/10W,DA,TP,2012 | |
| RP29 | 2007-000872 | R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012 | |
| RP30 | 2007-000872 | R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012 | |
| RP31 | 2007-001071 | R-CHIP;6.8Kohm,5%,1/10W,DA,TP,2012 | |
| RP32 | 2007-000642 | R-CHIP;270ohm,5%,1/10W,DA,TP,2012 | |
| RP33 | 2007-000401 | R-CHIP;150ohm,5%,1/10W,DA,TP,2012 | |
| RP34 | 2007-000872 | R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012 | |
| RP35 | 2007-000844 | R-CHIP;3Kohm,5%,1/10W,DA,TP,2012 | |
| RP36 | 2007-000844 | R-CHIP;3Kohm,5%,1/10W,DA,TP,2012 | |
| RP37 | 2007-000023 | R-CHIP;120ohm,5%,1/10W,DA,TP,2012 | |
| RP38 | 2007-000981 | R-CHIP;5.6Kohm,5%,1/10W,DA,TP,2012 | |
| RP39 | 2007-001177 | R-CHIP;8.2Kohm,5%,1/10W,DA,TP,2012 | |
| RP40 | 2007-001001 | R-CHIP;510ohm,5%,1/10W,DA,TP,2012 | |
| RP41 | 2007-000572 | R-CHIP;220ohm,5%,1/10W,DA,TP,2012 | |
| RP42 | 2007-001001 | R-CHIP;510ohm,5%,1/10W,DA,TP,2012 | |
| RP43 | 2007-000572 | R-CHIP;220ohm,5%,1/10W,DA,TP,2012 | |
| RP44 | 2007-001001 | R-CHIP;510ohm,5%,1/10W,DA,TP,2012 | |
| RP45 | 2007-000572 | R-CHIP;220ohm,5%,1/10W,DA,TP,2012 | |
| RP46 | 2007-001009 | R-CHIP;51Kohm,5%,1/10W,DA,TP,2012 | |
| RP47 | 2007-000774 | R-CHIP;33Kohm,5%,1/10W,DA,TP,2012 | |
| RP48 | 2007-000931 | R-CHIP;470ohm,5%,1/10W,DA,TP,2012 | |
| RP49 | 2007-000401 | R-CHIP;150ohm,5%,1/10W,DA,TP,2012 | |
| RP50 | 2007-001001 | R-CHIP;510ohm,5%,1/10W,DA,TP,2012 | |
| RP51 | 2007-000572 | R-CHIP;220ohm,5%,1/10W,DA,TP,2012 | |
| RP52 | 2007-000728 | R-CHIP;300ohm,5%,1/10W,DA,TP,2012 | |
| RP53 | 2007-000931 | R-CHIP;470ohm,5%,1/10W,DA,TP,2012 | |
| RP54 | 2007-000872 | R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012 | |
| RP55 | 2007-000477 | R-CHIP;1Mohm,5%,1/10W,DA,TP,2012 | |
| RP56 | 2007-000593 | R-CHIP;22ohm,5%,1/10W,DA,TP,2012 | |
| RP57 | 2007-000409 | R-CHIP;15Kohm,5%,1/10W,DA,TP,2012 | |
| RP58 | 2007-000703 | R-CHIP;3.6Kohm,5%,1/10W,DA,TP,2012 | |
| RP59 | 2001-001077 | R-CARBON(S);150ohm,5%,1/2W,AA,TP,2.4x6.4mm | |
| RP60 | 2007-000844 | R-CHIP;3Kohm,5%,1/10W,DA,TP,2012 | |
| RP61 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |

| Loc. No. | Code No. | Description ; Specification | Remark |
|---|---|---|---|
| RP62 | 2007-000964 | R-CHIP;5.1Kohm,5%,1/10W,DA,TP,2012 | |
| RP63 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RP64 | 2007-001166 | R-CHIP;75ohm,5%,1/10W,DA,TP,2012 | |
| RP65 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RP66 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RT01 | 2007-000872 | R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012 | |
| RT02 | 2007-000872 | R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012 | |
| RT03 | 2007-000872 | R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012 | |
| RT04 | 2007-000872 | R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012 | |
| RT05 | 2007-000872 | R-CHIP;4.7Kohm,5%,1/10W,DA,TP,2012 | |
| RT06 | 2007-000931 | R-CHIP;470ohm,5%,1/10W,DA,TP,2012 | |
| RT07 | 2007-000030 | R-CHIP;560ohm,5%,1/10W,DA,TP,2012 | |
| RT08 | 2007-000653 | R-CHIP;27Kohm,5%,1/10W,DA,TP,2012 | |
| RT11 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RT12 | 2007-000964 | R-CHIP;5.1Kohm,5%,1/10W,DA,TP,2012 | |
| RT13 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RT14 | 2007-000844 | R-CHIP;3Kohm,5%,1/10W,DA,TP,2012 | |
| RT15 | 2007-000282 | R-CHIP;100Kohm,5%,1/10W,DA,TP,2012 | |
| RT17 | 2007-000290 | R-CHIP;100ohm,5%,1/10W,DA,TP,2012 | |
| RT18 | 2007-000290 | R-CHIP;100ohm,5%,1/10W,DA,TP,2012 | |
| RT20 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RT21 | 2007-000728 | R-CHIP;300ohm,5%,1/10W,DA,TP,2012 | |
| RT22 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RT23 | 2007-000931 | R-CHIP;470ohm,5%,1/10W,DA,TP,2012 | |
| RT24 | 2007-001055 | R-CHIP;6.2Kohm,5%,1/10W,DA,TP,2012 | |
| RT25 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RT26 | 2007-000931 | R-CHIP;470ohm,5%,1/10W,DA,TP,2012 | |
| RT27 | 2007-001055 | R-CHIP;6.2Kohm,5%,1/10W,DA,TP,2012 | |
| RT28 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| RT29 | 2007-000931 | R-CHIP;470ohm,5%,1/10W,DA,TP,2012 | |
| RT30 | 2007-001055 | R-CHIP;6.2Kohm,5%,1/10W,DA,TP,2012 | |
| RT31 | 2007-000468 | R-CHIP;1Kohm,5%,1/10W,DA,TP,2012 | |
| XP01 | 2801-000276 | CRYSTAL-UNIT;4.433619MHz,40ppm,28-AAM,20pF, | |
| XP02 | 2801-000235 | CRYSTAL-UNIT;3.579545MHz,40ppm,28-AAM,S,75o | |
| XP03 | 2801-003485 | CRYSTAL-UNIT;21.059153MHz,30ppm,28-ABQ,17pF | |
| XT01 | 2801-003433 | CRYSTAL-UNIT;12MHz,30ppm,28-AAA,30pF,30ohm, | |

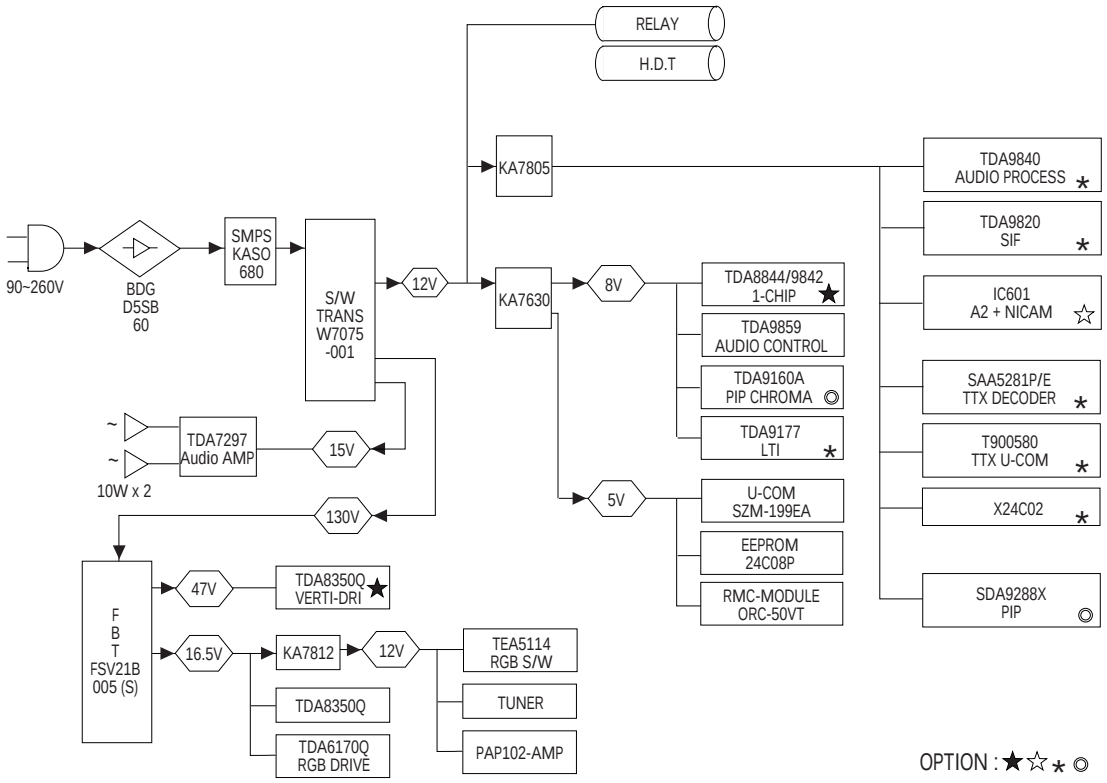
| Loc. No. | Code No. | Description ; Specification | Remark |
|---|---|---|---|
| | | **ASSY-POWER,CORD** | |
| ⚠ | AA39-10006X | POWER-CORD;-,KKP419C,KLCE-2F,2.286MT,3P,V | |
| | AA61-20284A | HOLDER;-,P-CORD,PP,VO,BLK,KE-002 | |
| | | **REMOCON** | |
| * | AA59-10084S | REMOCON;-,TM48,RM155AR,47,L/GRY,SS | |
| | | **ASSY-HOLDER,SPK** | |
| * | AA91-60207A | ASSY-HOLDER,SPK;-,M-PP,HB,BLK/HORN,168mm,8R15W | |
| | | **ASSY-CRT** | |
| ⚠ | AA03-10026K | CRT-COLOR;-,A53QCA891X(B),+380mG,21,90d | |
| ⚠ | AA27-50004N | DEFLECTION-YOKE;-,DSQ-2192AL,21/A53QCA691X,SH | |
| | AA27-60001K | MAGNET-CONVERGENCE;-,NY-291,29.1mm | |
| | AA63-60028A | SPACER-DY;NEOPRENE,-,BLK,V0 W12,-,- | |
| | | **ASSY-ACCESSORY** | |
| | AA26-90001C | TRANS-MATCHING;-,300ohm/75ohm,PAL,40-890MHz | |
| | AA42-10001V | ANT-ROD;-,3S,620mm,BRN,UL/CSA | |
| | AA68-11204A | MANUAL-USERS;SCT57B,RUSSIA,TM51,B5,W/P 100( | |

# 8. Block Diagram

## 8-1 Signal Block

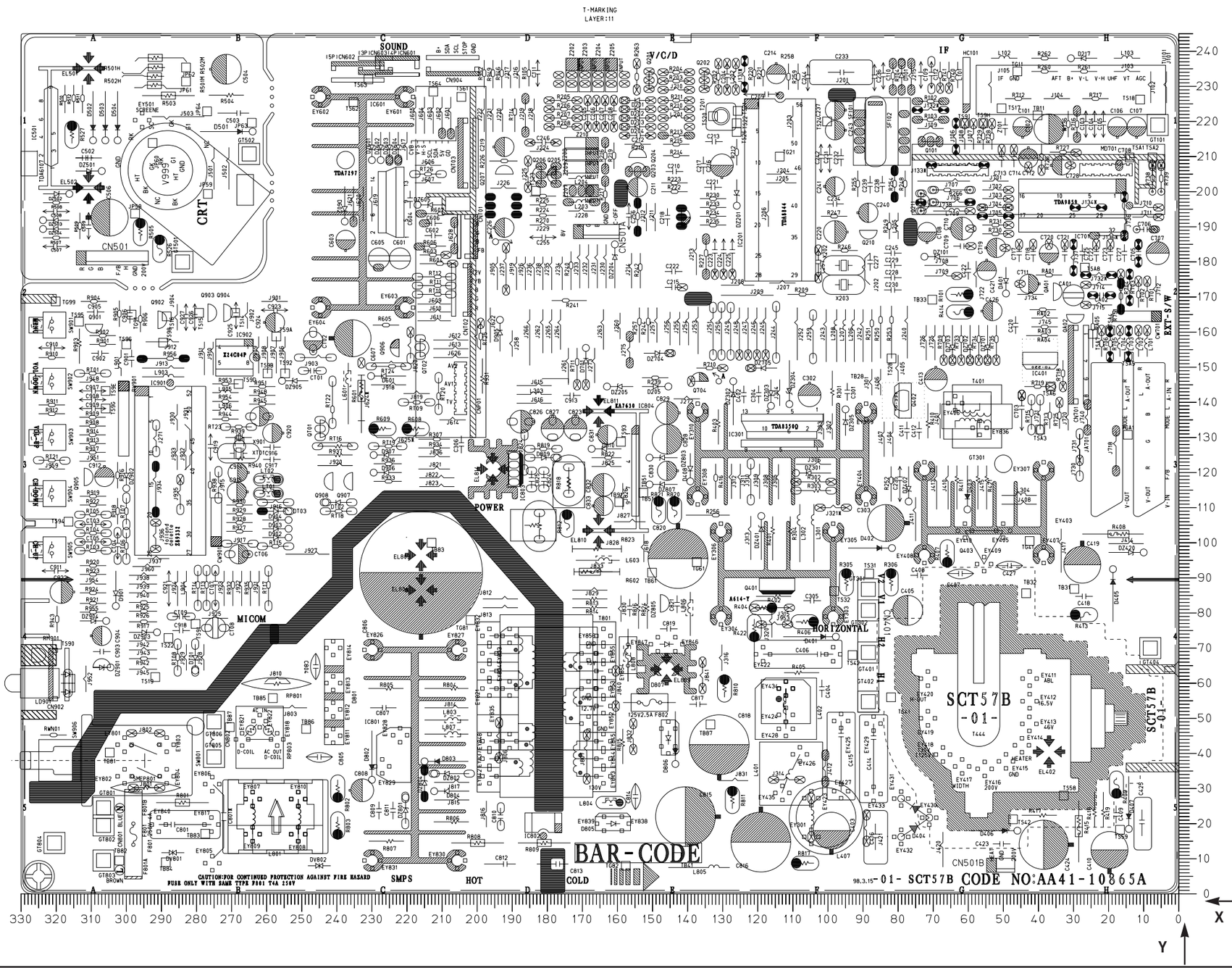


# 8-2 Power Block



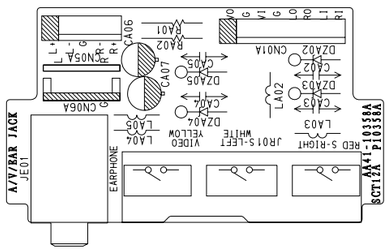
# 9. PCB Layout

## 9-1 PCB MAIN

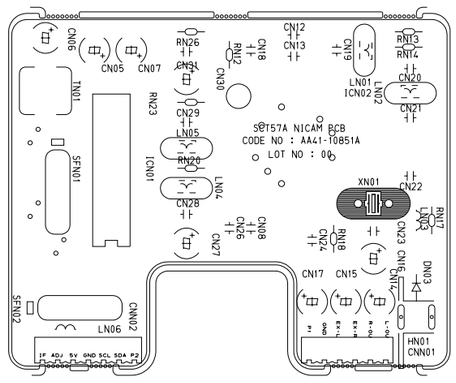



| Loc. No. | X | Y |
|---|---|---|
| **DIODE** | | |
| D101 | 79 | 236 |
| D201 | 158 | 226 |
| D202 | 158 | 223 |
| D203 | 158 | 221 |
| D204 | 158 | 218 |
| D205 | 145 | 144 |
| D217 | 30 | 238 |
| D401 | 97 | 73 |
| D402 | 81 | 98 |
| D403 | 60 | 109 |
| D404 | 79 | 16 |
| D405 | 18 | 92 |
| D406 | 46 | 18 |
| D407 | 14 | 18 |
| D408 | 139 | 117 |
| D501 | 264 | 217 |
| D502 | 309 | 214 |
| D503 | 306 | 214 |
| D504 | 302 | 214 |
| D601 | 230 | 147 |
| D602 | 237 | 191 |
| D701 | 169 | 155 |
| D801 | 241 | 45 |
| D802 | 230 | 32 |
| D803 | 215 | 37 |
| D804 | 212 | 29 |
| D805 | 158 | 20 |
| D806 | 143 | 37 |
| D807 | 146 | 64 |
| D809 | 177 | 124 |
| D810 | 167 | 126 |
| D901 | 303 | 82 |
| D902 | 253 | 101 |
| D903 | 253 | 104 |
| D904 | 253 | 106 |
| D905 | 193 | 163 |
| D906 | 229 | 120 |
| D907 | 229 | 125 |
| DA01 | 49 | 171 |
| DT01 | 280 | 63 |
| DT02 | 243 | 111 |
| DT03 | 253 | 109 |
| DV801 | 290 | 11 |
| DV802 | 241 | 8 |
| DZ101 | 72 | 181 |
| DZ201 | 126 | 196 |
| DZ204 | 160 | 185 |
| DZ205 | 163 | 144 |
| DZ301 | 109 | 119 |
| DZ302 | 127 | 146 |
| DZ303 | 116 | 139 |
| DZ304 | 111 | 139 |
| DZ305 | 95 | 138 |
| DZ401 | 119 | 107 |
| DZ402 | 77 | 111 |
| DZ420 | 10 | 97 |
| DZ421 | 188 | 193 |
| DZ501 | 307 | 205 |
| DZ502 | 316 | 199 |
| DZ503 | 323 | 191 |
| DZ504 | 323 | 189 |
| DZ601 | 230 | 209 |
| DZ602 | 227 | 209 |
| DZ603 | 225 | 209 |
| DZ604 | 222 | 209 |
| DZ605 | 217 | 196 |
| DZ701 | 54 | 152 |
| DZ702 | 59 | 152 |
| DZ703 | 64 | 152 |
| DZ704 | 145 | 154 |
| DZ705 | 122 | 149 |
| DZ801 | 220 | 27 |
| DZ802 | 212 | 34 |
| DZ803 | 150 | 124 |
| DZ804 | 215 | 35 |
| DZ805 | 147 | 80 |
| DZ807 | 150 | 116 |
| DZ901 | 304 | 64 |
| DZ902 | 300 | 115 |
| DZ903 | 291 | 74 |
| DZ904 | 305 | 77 |
| DZ905 | 255 | 146 |
| **IC** | | |
| HC101 | 60 | 224 |
| IC201 | 105 | 224 |
| IC301 | 137 | 137 |
| IC401 | 42 | 152 |
| IC501 | 310 | 201 |
| IC601 | 220 | 227 |
| IC701 | 17 | 190 |
| IC801 | 229 | 9 |
| IC802 | 185 | 19 |
| IC803 | 195 | 121 |
| IC804 | 165 | 137 |
| IC901 | 279 | 142 |
| IC902 | 265 | 148 |
| **TRANSISTOR** | | |
| Q101 | 68 | 214 |
| Q201 | 151 | 229 |
| Q202 | 135 | 229 |
| Q203 | 151 | 205 |
| Q204 | 151 | 209 |
| Q205 | 177 | 207 |
| Q206 | 181 | 207 |
| Q207 | 189 | 205 |
| Q210 | 91 | 189 |
| Q211 | 73 | 194 |
| Q401 | 98 | 79 |
| Q402 | 78 | 143 |
| Q403 | 38 | 96 |
| Q704 | 134 | 146 |
| Q901 | 311 | 162 |
| Q902 | 291 | 161 |
| Q903 | 276 | 163 |
| Q904 | 272 | 163 |
| Q905 | 312 | 116 |
| Q906 | 222 | 158 |
| Q907 | 235 | 120 |
| Q908 | 241 | 120 |
| Q909 | 141 | 190 |
| QA01 | 35 | 169 |
| QA02 | 32 | 165 |

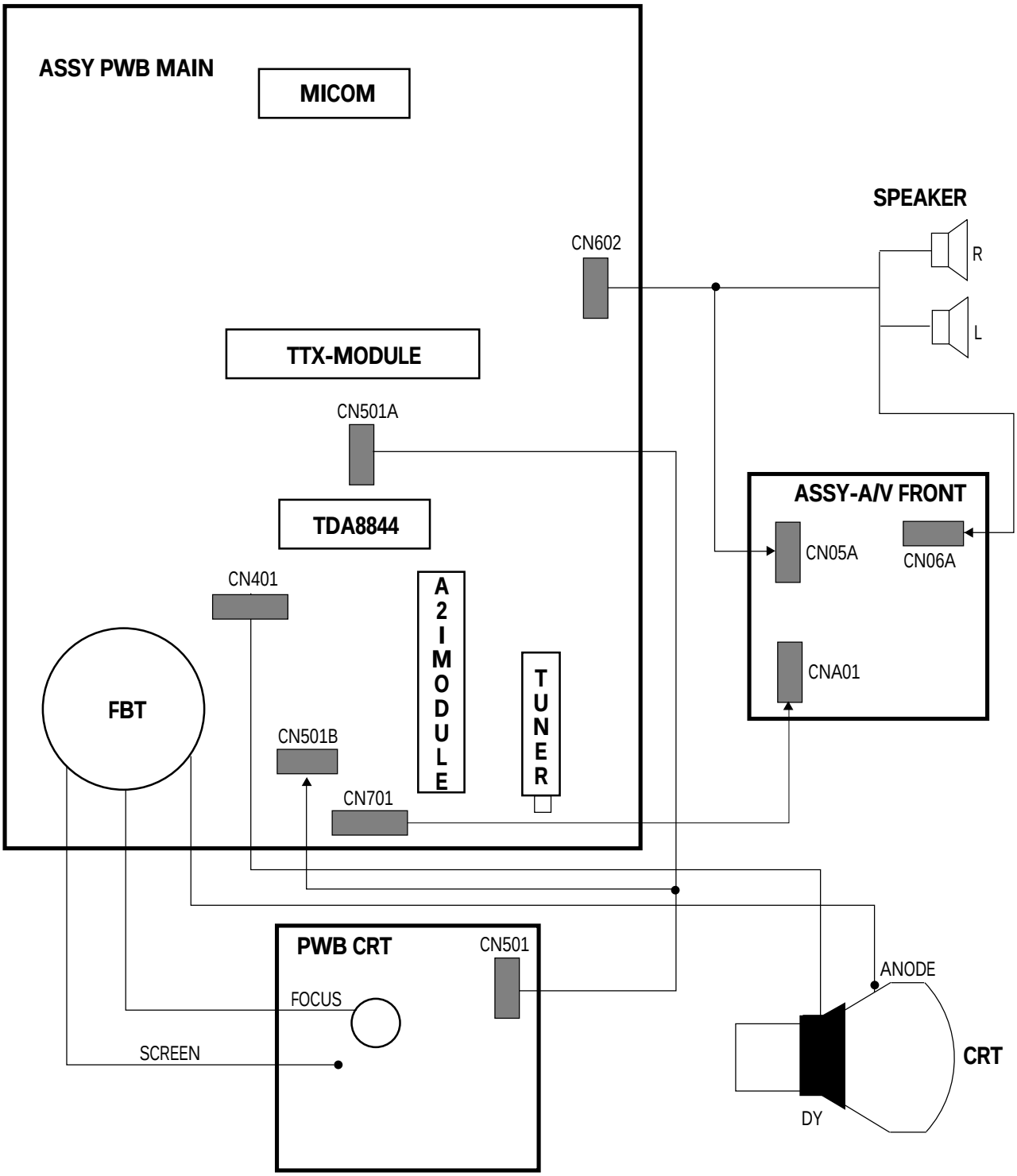
## 9-2 PCB-A/V




## 9-3 PCB-NICAM

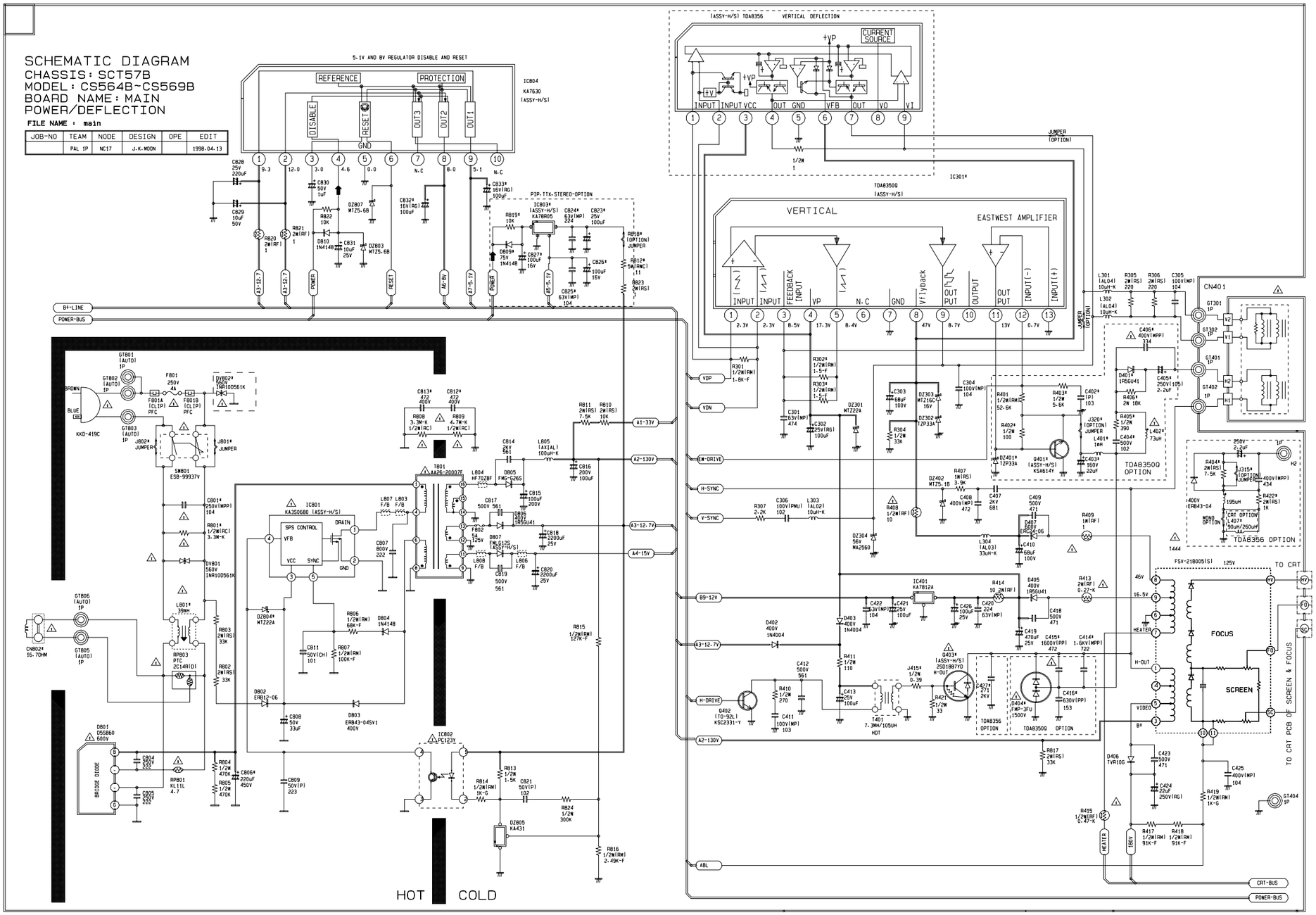


# 10. Wiring Diagram

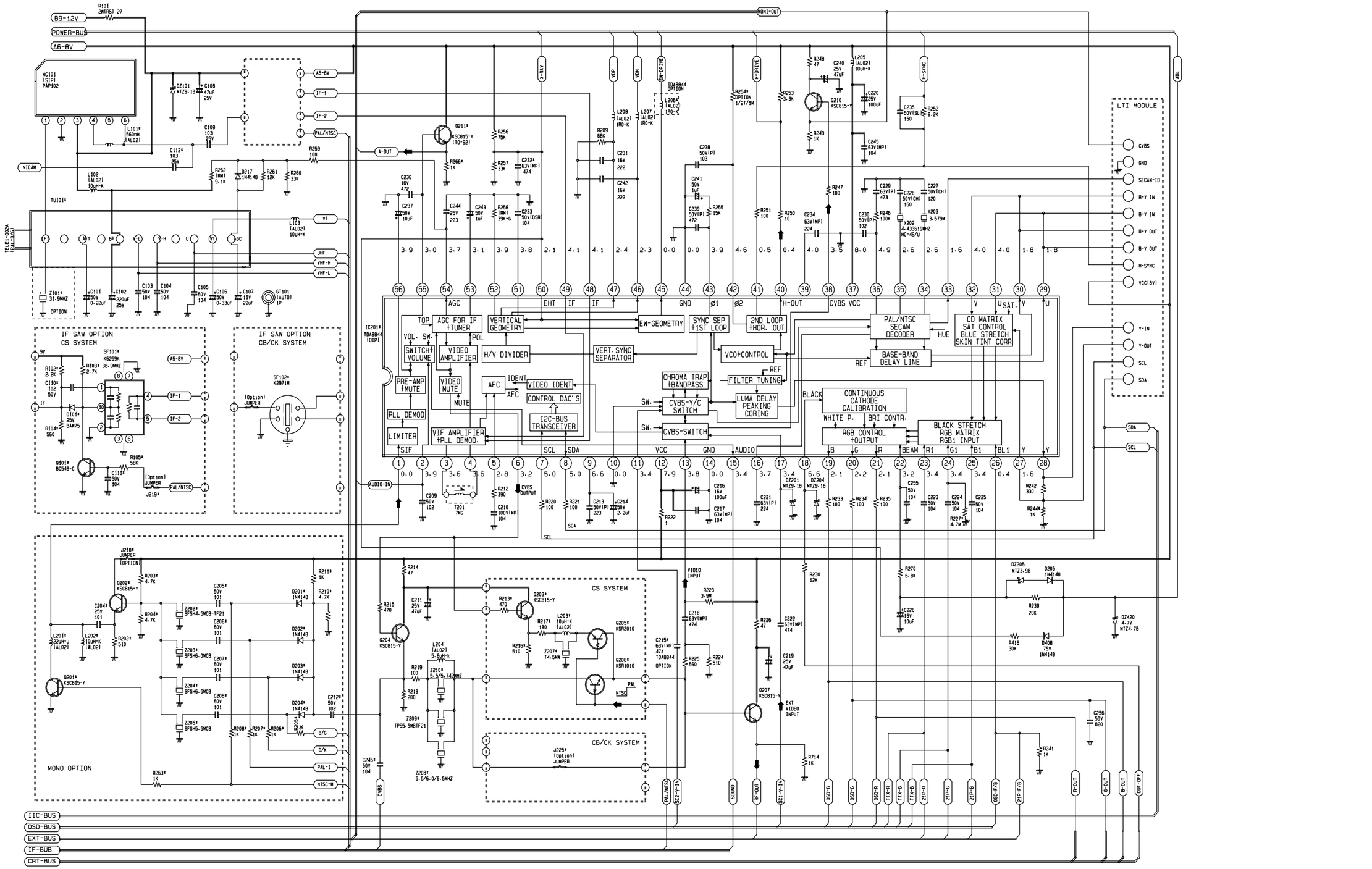


# 11. Schematic Diagrams

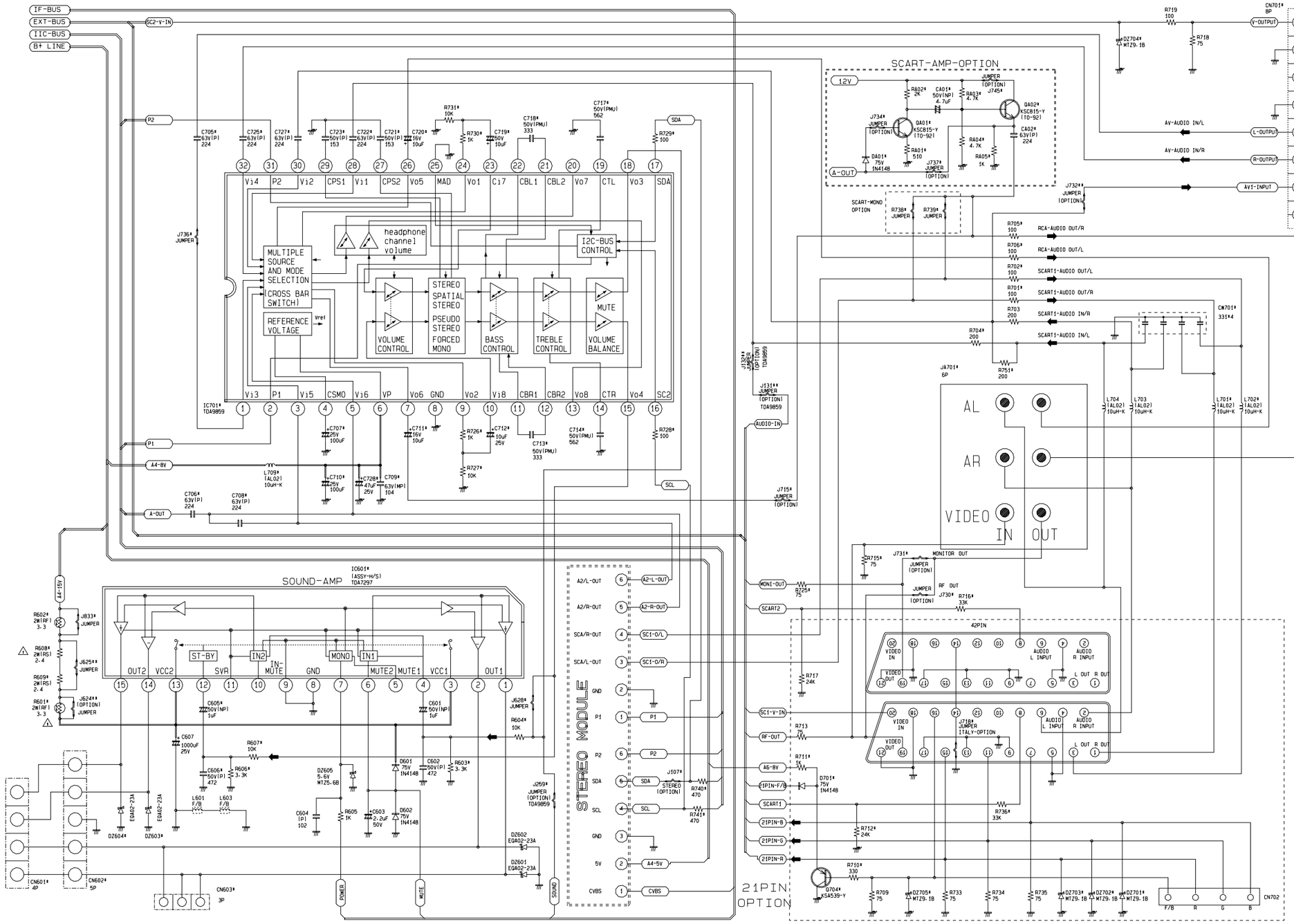
## 11-1 MAIN-POWER



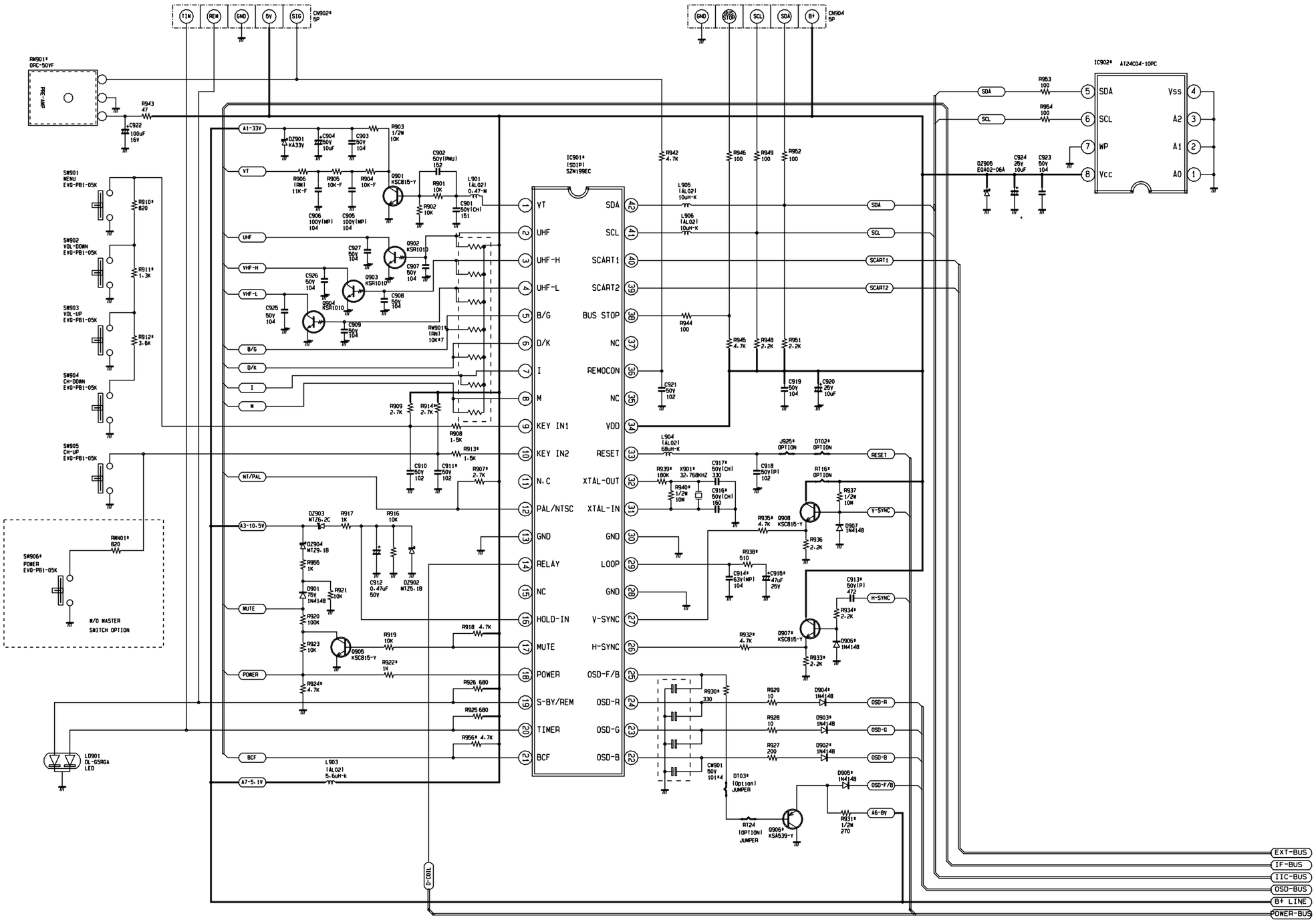
# 11-2 MAIN-CHROMA



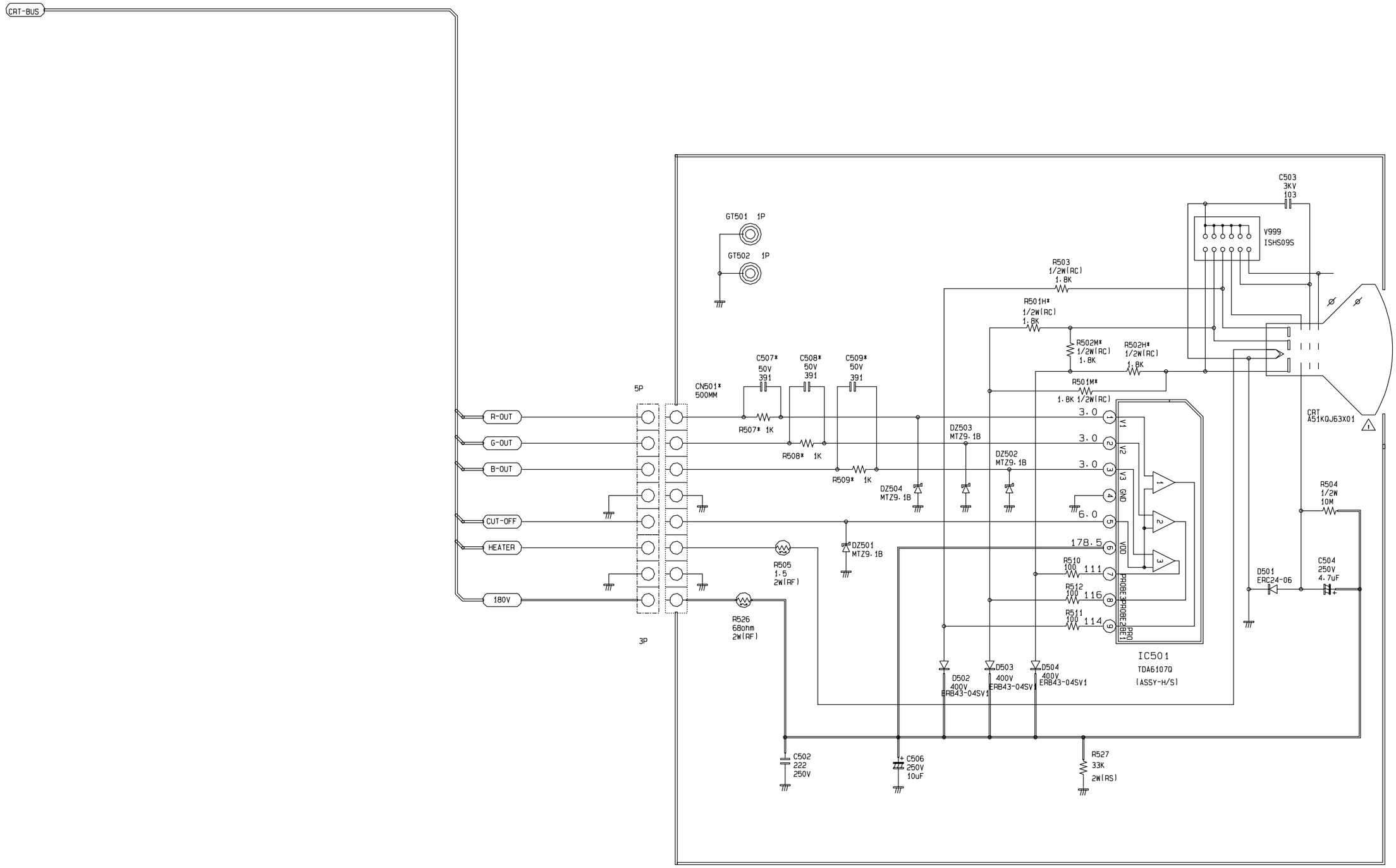
## 11-3 MAIN-AUDIO



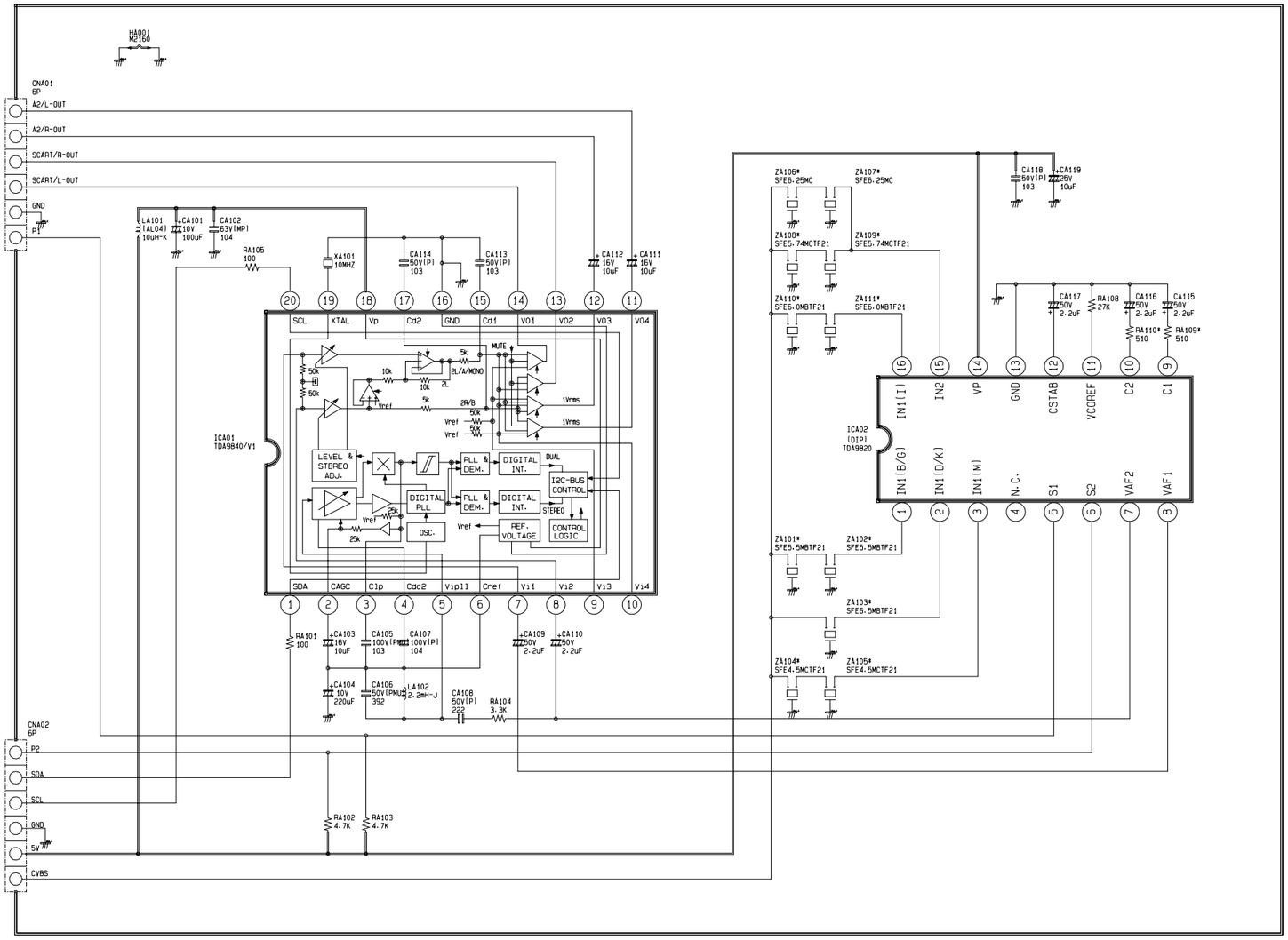
## 11-4 MAIN-U-COM



## 11-5 MAIN-CRT


CRT-BUS
R-OUT
G-OUT
B-OUT
CUT-OFF
HEATER
180V
5P
3P
CN501*
500MM
GT501 1P
GT502 1P
C507*
50V
391
C508*
50V
391
C509*
50V
391
R507* 1K
R508* 1K
R509* 1K
DZ504
MTZ9.1B
DZ503
MTZ9.1B
DZ502
MTZ9.1B
DZ501
MTZ9.1B
R505
1.5
2W(RF)
R526
68ohm
2W(RF)
C503
3KV
103
V999
ISHS09S
R503
1/2W(RC)
1.8K
R501H*
1/2W(RC)
1.8K
R502M*
1/2W(RC)
1.8K
R502H*
1/2W(RC)
1.8K
R501M*
1.8K 1/2W(RC)
3.0
3.0
3.0
6.0
178.5
R510
100
111
R512
100
116
R511
100
114
V1
V2
V3
GND
VDD
PROBE3
PROBE2
PROBE1
IC501
TDA6107Q
(ASSY-H/S)
D502
400V
ERB43-04SV1
D503
400V
ERB43-04SV1
D504
400V
ERB43-04SV1
CRT
A51KQJ63X01
R504
1/2W
10M
C504
250V
4.7uF
D501
ERC24-06
C502
222
250V
C506
250V
10uF
R527
33K
2W(RS)

## 11-6 STEREO SIF




LOGIC TABLE

| STANDARD | P1 PIN5 | P2 PIN6 | FREQUNCY VCO1 | FREQUNCY VCO2 |
|---|---|---|---|---|
| B/G | 1 | 1 | 5.5MHZ | 5.74MHZ |
| NTSC-M | 1 | 0 | 4.5MHZ | |
| PAL-I | 0 | 1 | 6.0MHZ | |
| D/K | 0 | 0 | 6.5MHZ | 6.25MHZ |

| CAPACITOR | |
|---|---|
| Ceramic - SL | No Mark |
| Ceramic - RH | (RH) |
| Ceramic - CH | (CH) |
| Polyester(Induct) | (P) |
| Polyester(Noninduct) | (PMU) |
| Polypropylene | (PP) |
| Metal Polyester | (MP) |
| M.P.Polypropylene | (MPP) |
| Tantalium | (T) |
| Non Polar | (NP) |

| RESISTOR | |
|---|---|
| Carbon | No Mark |
| Composition | (RC) |
| Metal Oxide | (RS) |
| Metal Film | (RM) |
| Fusible | (RF) |
| Cement·Wire | (RW) |
| Network | (RN) |

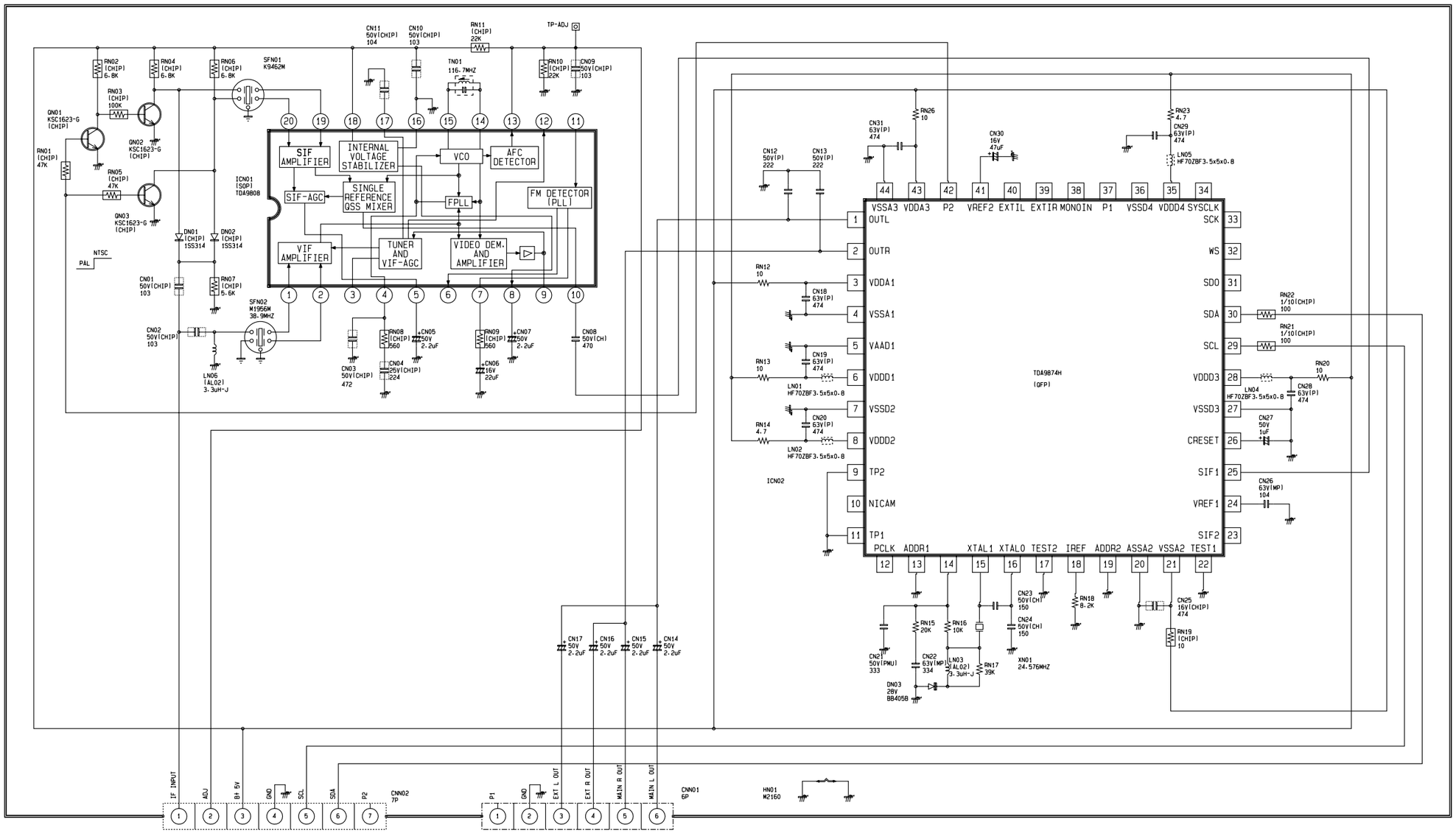
EXPRESSION

1 Resistance is shown ohm K=1.000 M=1.000.000
2 Unless otherwise noted in schematic all capacitor values less than 1 are expressed in ufd. the values more than 1 in pF.
3 Unless otherwise noted in schematic all inductor values areexpressed in uH.and the values less than 1 in mH.

NOTE

The circuits are subject to change without notice to improve the picture quality.

# 11-7 MAIN-NICAM




| CAPACITOR | |
|---|---|
| Ceramic - SL | No Mark |
| Ceramic - RH | (RH) |
| Ceramic - CH | (CH) |
| Polyester(Induct) | (P) |
| Polyester(Noninduct) | (PMU) |
| Polypropylene | (PP) |
| Metal Polyester | (MP) |
| M.P.Polypropylene | (MPP) |
| Tantalium | (T) |
| Non Polar | (NP) |

| RESISTOR | |
|---|---|
| Carbon | No Mark |
| Composition | (RC) |
| Metal Oxide | (RS) |
| Metal Film | (RM) |
| Fusible | (RF) |
| Cement-Wire | (RW) |
| Network | (RN) |

EXPRESSION

1 Resistance is shown ohm K=1.000 M=1.000.000

2 Unless otherwise noted in schematic all capacitor values less than 1 are expressed in ufd. the values more than 1 in pF.

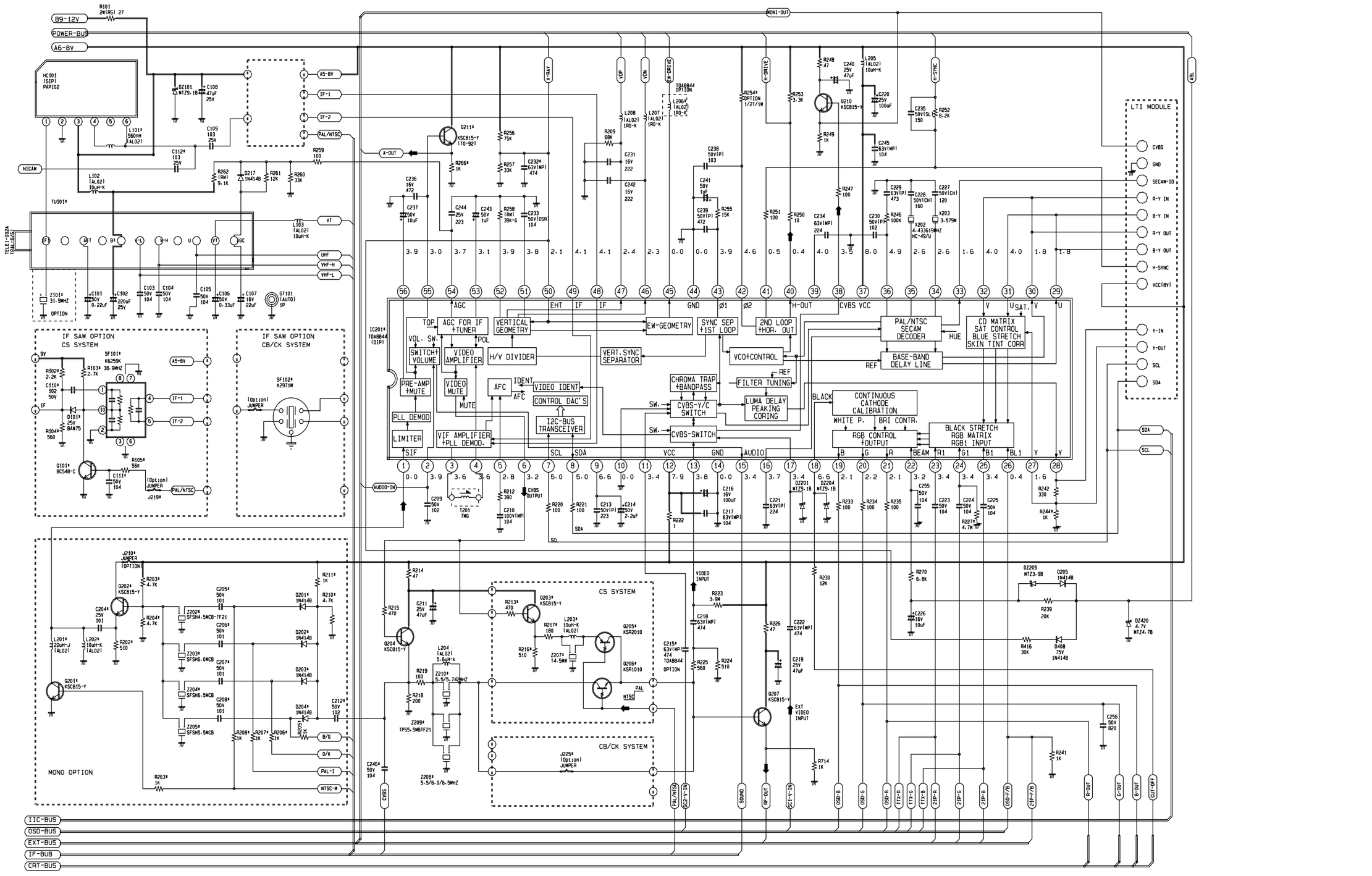
3 Unless otherwise noted in schematic all inductor values areexpressed in uH.and the values less than 1 in mH.

NOTE

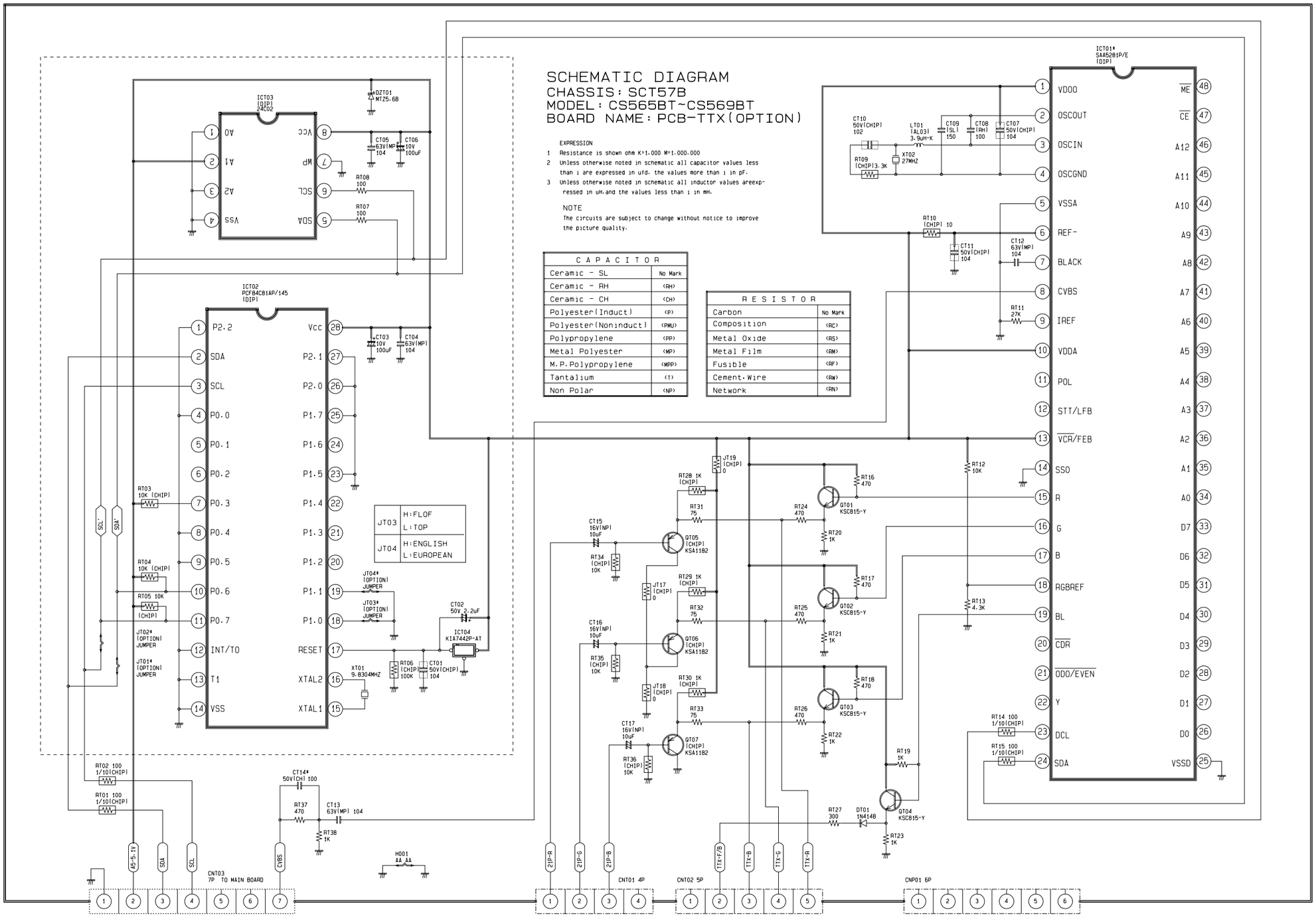
The circuits are subject to change without notice to improve the picture quality.

SCHEMATIC DIAGRAM
CHASSIS: SCT57B
MODEL: CS565BN~CS569BN
BOARD NAME: NICAM

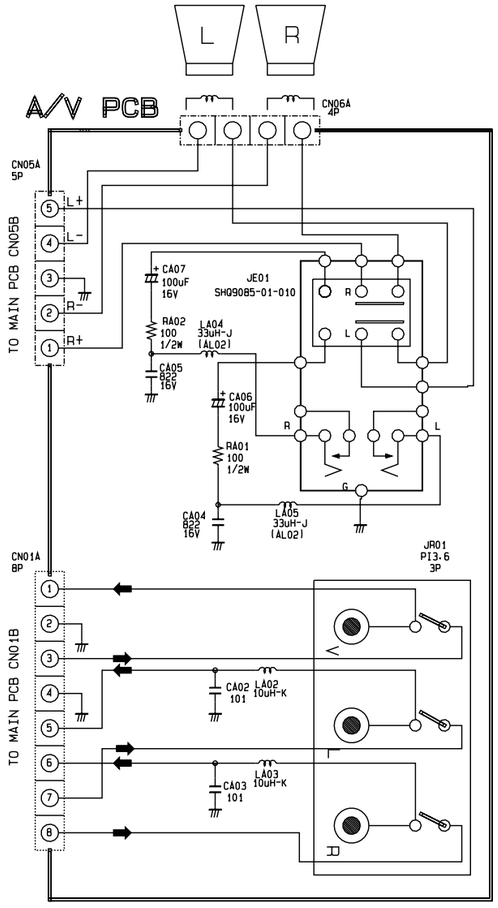
# 11-8 PIP-TTX


B9-12V
POWER-BUS
A6-8V
A5-8V
IF-1
IF-2
PAL/NTSC
A-OUT
NICAM
VT
UHF
VHF-H
VHF-L
MONI-OUT
ABL
LTI MODULE
CVBS
GND
SECAM-ID
R-Y IN
B-Y IN
R-Y OUT
B-Y OUT
H-SYNC
VCC(8V)
Y-IN
Y-OUT
SCL
SDA
IF SAW OPTION
CS SYSTEM
IF SAW OPTION
CB/CK SYSTEM
MONO OPTION
CS SYSTEM
CB/CK SYSTEM
AGC
EHT
IF
GND
H-OUT
CVBS VCC
AGC FOR IF +TUNER
VERTICAL GEOMETRY
EW-GEOMETRY
SYNC SEP +1ST LOOP
2ND LOOP +HOR. OUT
PAL/NTSC SECAM DECODER
CD MATRIX SAT CONTROL BLUE STRETCH SKIN TINT CORR
BASE-BAND DELAY LINE
VIDEO AMPLIFIER
H/V DIVIDER
VERT.SYNC SEPARATOR
VCO+CONTROL
PRE-AMP +MUTE
VIDEO MUTE
AFC
VIDEO IDENT
CONTROL DAC'S
I2C-BUS TRANSCEIVER
CHROMA TRAP +BANDPASS
FILTER TUNING
LUMA DELAY PEAKING CORING
CVBS-Y/C SWITCH
CVBS-SWITCH
CONTINUOUS CATHODE CALIBRATION
RGB CONTROL +OUTPUT
BLACK STRETCH RGB MATRIX RGB1 INPUT
PLL DEMOD
LIMITER
VIF AMPLIFIER +PLL DEMOD.
SIF
SCL
SDA
VCC
GND
AUDIO
AUDIO-IN
CVBS OUTPUT
VIDEO INPUT
EXT VIDEO INPUT
IIC-BUS
OSD-BUS
EXT-BUS
IF-BUB
CRT-BUS

## 11-9 TTX OPTION



## 11-10 PCB-A/V







EXPRESSION

1 Resistance is shown ohm K=1.000 M=1.000.000
2 Unless otherwise noted in schematic all capacitor values less than 1 are expressed in ufd. the values more than 1 in pF.
3 Unless otherwise noted in schematic all inductor values areexpressed in uH.and the values less than 1 in mH.

NOTE

The circuits are subject to change without notice to improve the picture quality.

| RESISTOR | |
|---|---|
| Carbon | No Mark |
| Composition | (RC) |
| Metal Oxide | (RS) |
| Metal Film | (RW) |
| Fusible | (RF) |
| Cement.Wire | (RW) |
| Network | (RN) |

| CAPACITOR | |
|---|---|
| Ceramic - SL | No Mark |
| Ceramic - RH | (RH) |
| Ceramic - CH | (CH) |
| Polyester(Induct) | (P) |
| Polyester(Noninduct) | (PMU) |
| Polypropylene | (PP) |
| Metal Polyester | (MP) |
| M.P.Polypropylene | (MPP) |
| Tantalium | (T) |
| Non Polar | (NP) |